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Monterey, California

THESIS

M3355

AEROTHERMODYNAMIC ANALYSIS OF A COANDA/REFRACTION JET ENGINE TEST FACILITY

by

André Maraoui

December 1988

Thesis Advisor David Salinas

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Aerothermodynamic Analysis of a Coanda/Refraction Jet Engine Test Facility

by

Andre Maraoui
Lieutenant, United States Navy
B.S., United States Naval Academy, 1983

Submitted in partial fulfillment of the
requirements for the degree of

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

from the

NAVAL POSTGRADUATE SCHOOL
December 1988

ABSTRACT

A computer model of the Coanda/Refraction Jet Engine Test Cell facility was developed using the PHOENICS computer code. The PHOENICS code was utilized to determine the steady state aerothermal characteristics of the test cell during the testing of an F404 gas turbine engine with afterburner in operation. Computer generated aerothermodynamic field variables of pressure, velocity and temperature parameters were compared to operational field test data. Observations regarding compared results as well as system behavior are presented. Additionally, recommendations of the applications of PHOENICS to future modeling projects are made.

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I. INTRODUCTION

The testing of new and/or overhauled gas turbine engines plays a vital and integral role in the preparation of these powerplants for operational use. To safely and effectively monitor such testing, test cell and hush house facilities are utilized. A detailed description of a test cell facility, which is the subject of this thesis, is provided in chapter two. A description of a hush house facility is discussed in the following.

There are five categories of facilities used for engine testing today. All involve some form of holding device for the engine or aircraft. These facilities must accommodate various sensors and instruments and be designed to test a variety of engine types such as turbojets, turbofans, turboprops, as well as ship gas turbine engines. These five facility types include: [Ref. 1: p. 2]

1. The Run-Up Pad: The simplest of the five facilities, where a tied down aircraft is the engine holding device. Testing is conducted in remote open air locations.
2. Sound Suppressors: These are equipment packages used on Run-UP pads. They collect and reduce inlet and exhaust noise.
3. Open Test Stand: The Open Test Stand or (OTS) is an outdoor stand that secures the engine in place while being tested. Portable instrumentation must be used.
4. Hush House: The Hush House is a totally enclosed structure which allows for continuous testing. A Hush House facility includes an inlet bay area, where the engine is prepared for testing, an ejector or augmentor tube, where the exhaust gases are discharged into, the exhaust stack, where exhaust gases are emitted into the atmosphere, and various primary and secondary air inlets, which provide suction air for the engine as well as cooling air for the exhaust. This facility accommodates the testing of an engine inside the airframe of an airplane.
5. Fully Enclosed Test Cell: A Fully Enclosed Test Cell facility is similar in structure to a Hush House, with one major difference. Engines are tested on a test stand vice being inside the airframe of an airplane. One example of a Fully Enclosed Test Cell facility is the Altitude Test Cell. The altitude test cell simulates various altitude changes by providing air to the engine at proper stagnation pressures and temperatures for a specified altitude.

Today, there are a total of 76 enclosed engine test facilities in the U.S. Navy. Only 60 are fully operational and 51 of these facilities are at least 22 years old. With the advent of new and more powerful engines that provide higher thrust and temperature outputs, present facilities' compliance with federal, state, and local noise and pollution standards becomes more difficult. Immediate problem areas include: structural degradation, safety, maintenance, and design criteria. [Ref. 1: p. 6]

- Structural Degradation: The high gas temperatures have caused cracking and spalling of test cell concrete walls and silencing baffles, leaving exposed reinforcing steel to corrode and fail.
- Safety: Safety problems such as flying debris of spalled material, spilled fuel, foreign debris ingestion, as well as compressor stalls and lack of visual observation of all sides of the engines or aircraft are of great concern.
- Maintenance: Existing concrete repair technology is inadequate for test cell facilities. The lack of standardized repair and maintenance manuals increases cost and reduces efficiency.
- Design Criteria: The lack of any standardized designs for test cell facilities has reduced cost effectiveness.

The present condition of todays test facilities continually increase the risk of personnel being subjected to hearing and respiratory ailments. In 1981 the Navy Environmental Health Center cited a total claims of $114 million against the government with an annual claim growth of 9% [Ref. 1: p. 3].

The Department of the Navy is currently undergoing a comprehensive program of research and development to provide standardized facilities to test gas turbine engines. This program will integrate the latest technological advances with emphasis on environmental concerns. Specific objectives include: [Ref. 1: p. 1]

- Establish a range of construction quality levels to optimize facility design life and life cycle costs for various classes of facilities.
- Assure the complete development of facility configurations based on optimum operational, testing, environmental and safety criteria for current and future inventory of aircraft and engines.
- Ensure reliable operation and maintenance throughout the facility life cycle through the development of integrated logistic support plans and specifications.

Designs of future facilities must incorporate the effect of turbulence, supersonic velocities, and pressure and temperature gradients on system performance.

The Naval Civil Engineering Laboratory (NCEL) at Port Hueneme California, is currently using computer modeling to obtain better understanding of test cell behavior in order to assist in future design of test cells. The PHOENICS code (discussed in chapter three) is being used to analyze existing facilities. The results from the numerical model is then compared with actual field test data. The Naval Postgraduate School has been modeling several different test cell facilities using the PHOENICS code. By comparing and validating computer simulation results with actual field data, the ability of

PHOENICS to design future test facilities can be assessed.

The purposes of this thesis include:

- The modeling of the Coanda Refraction #2 test cell using the PHOENICS code for the aerothermodynamic characteristics of gas pressure, velocity, temperature and turbulence.
- Comparing the computer generated results with actual test data results.
- Providing recommendations on the use of PHOENICS in future modeling projects.

II. DESCRIPTION OF THE COANDA TEST CELL

A. MAIN COMPONENTS

The Coanda/Refraction noise suppression system is the test cell under investigation in this thesis. There are two of these test cells (cell #1, and cell #2) located in Lemoore Naval Air Station, California. A variety of engines are tested in this test cell facility. The engine that will be used in the computer analysis of the Coanda/Refraction #2 test cell is the GE F404 gas turbine engine, the power plant for the F/A-18 fighter aircraft.

The Coanda test cell (see Figure 1) is a fully enclosed structure. Its reinforced concrete walls are .457 meters (1.5 feet) thick. The structure is 30 meters (98 feet) in length and 8 meters (26 feet) in width. The height of the exhaust stack is 17.2 meters (56.4 feet) (see Figure 2).

The Coanda test cell is one of the more geometrically complex test cells found today. It is composed of various primary and secondary air intakes as well as a Coanda/Refraction system (see **Coanda Effect** in chapter two for a description of the Coanda Refraction system). Figure 3 illustrates the overall flow direction of air and gases through the facility. The main components of this test cell include: the primary intake, the forward secondary intake, attenuators, ejectors, the coanda surface, the after secondary intake and exhaust (see Figure 2). The function of each part follows: [Ref. 2: p. 2]

- Primary Intake: Provides the engine airflow.
- Forward Secondary Intake: Provides airflow for the cooling and mixing of jet exhaust.
- Attenuators: The attenuators suppress noise in the primary and secondary intake.
- Ejectors: The ejectors or augmentors provide a region of mixing of the exhaust gases with cooling air.
- Coanda Surface: A curved surface directly downstream of the ejectors. The curve is logarithmic instead of a constant radius to allow for better cooling and air mixing.
- After Secondary Intake: Its purpose is identical to the forward secondary intake. It permits the flow of air into the structure for mixing and cooling. The inlets are lined with acoustic panels to reduce noise propagation.
- Exhaust: The exhaust stack allows exhaust gases to exit the test cell into the atmosphere. To reduce noise, the concrete stack is layered by acoustic absorber and multilayered perforated face shields.

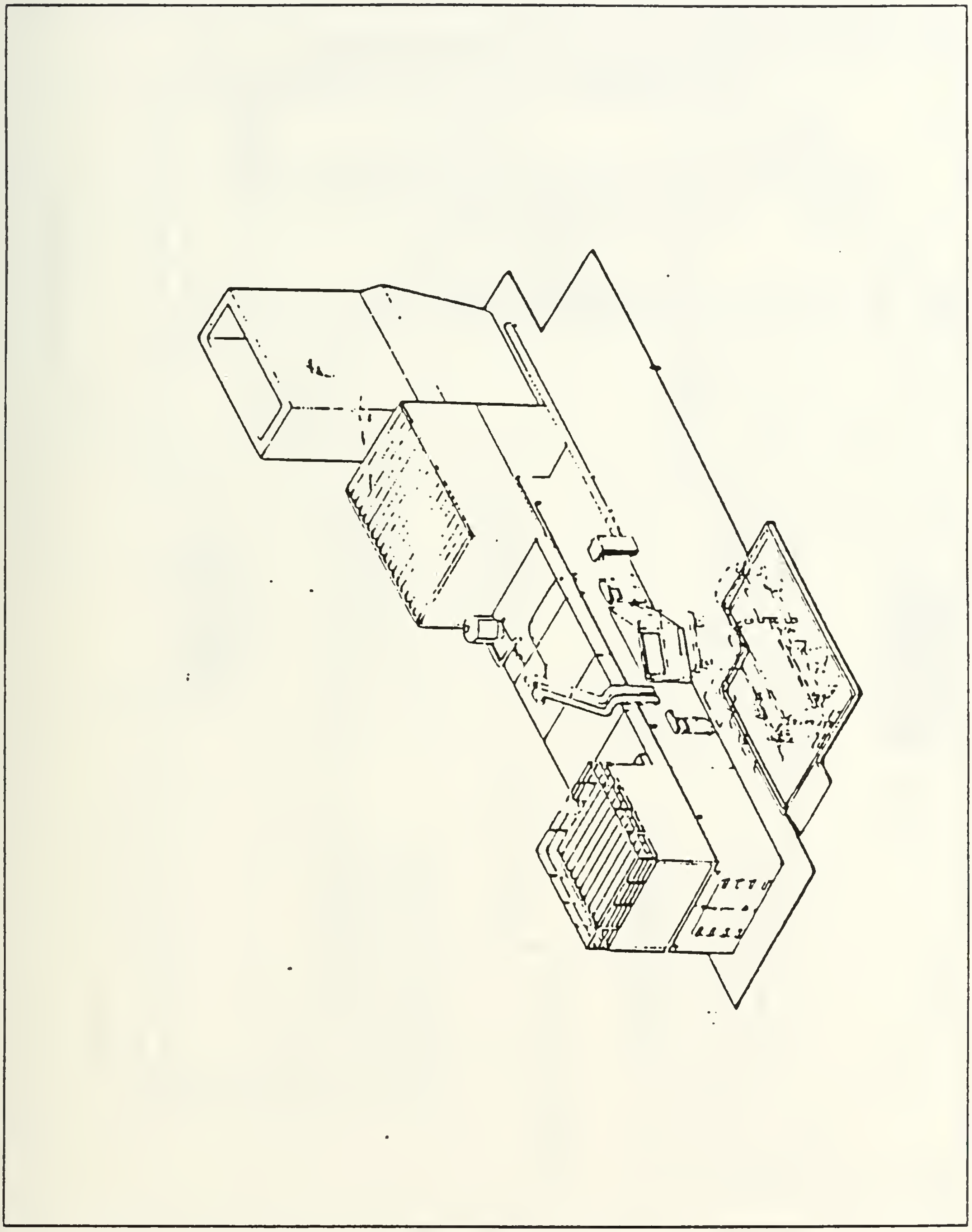


Figure 1. Coanda/Refraction test cell

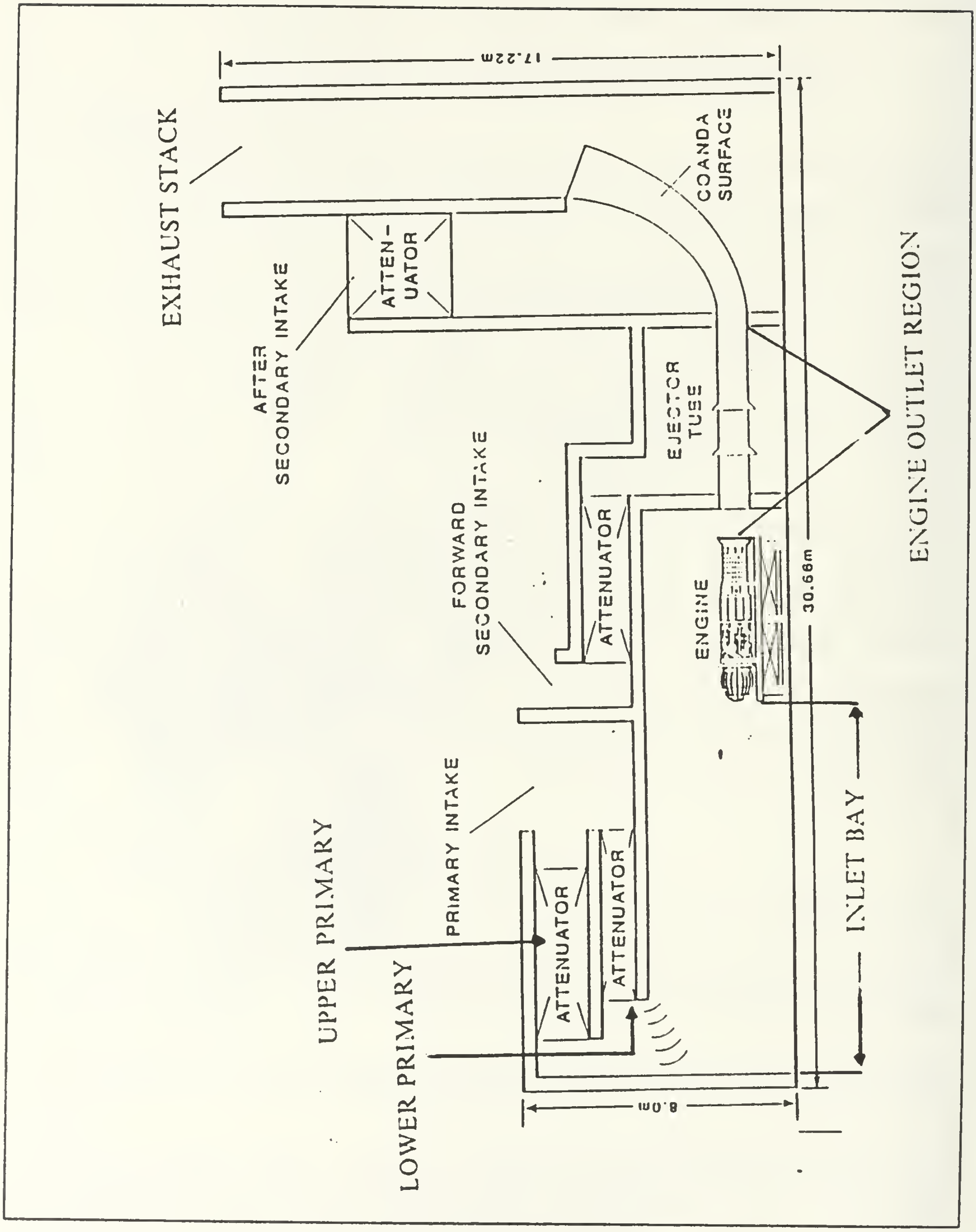


Figure 2. Coanda/Refraction Main Components

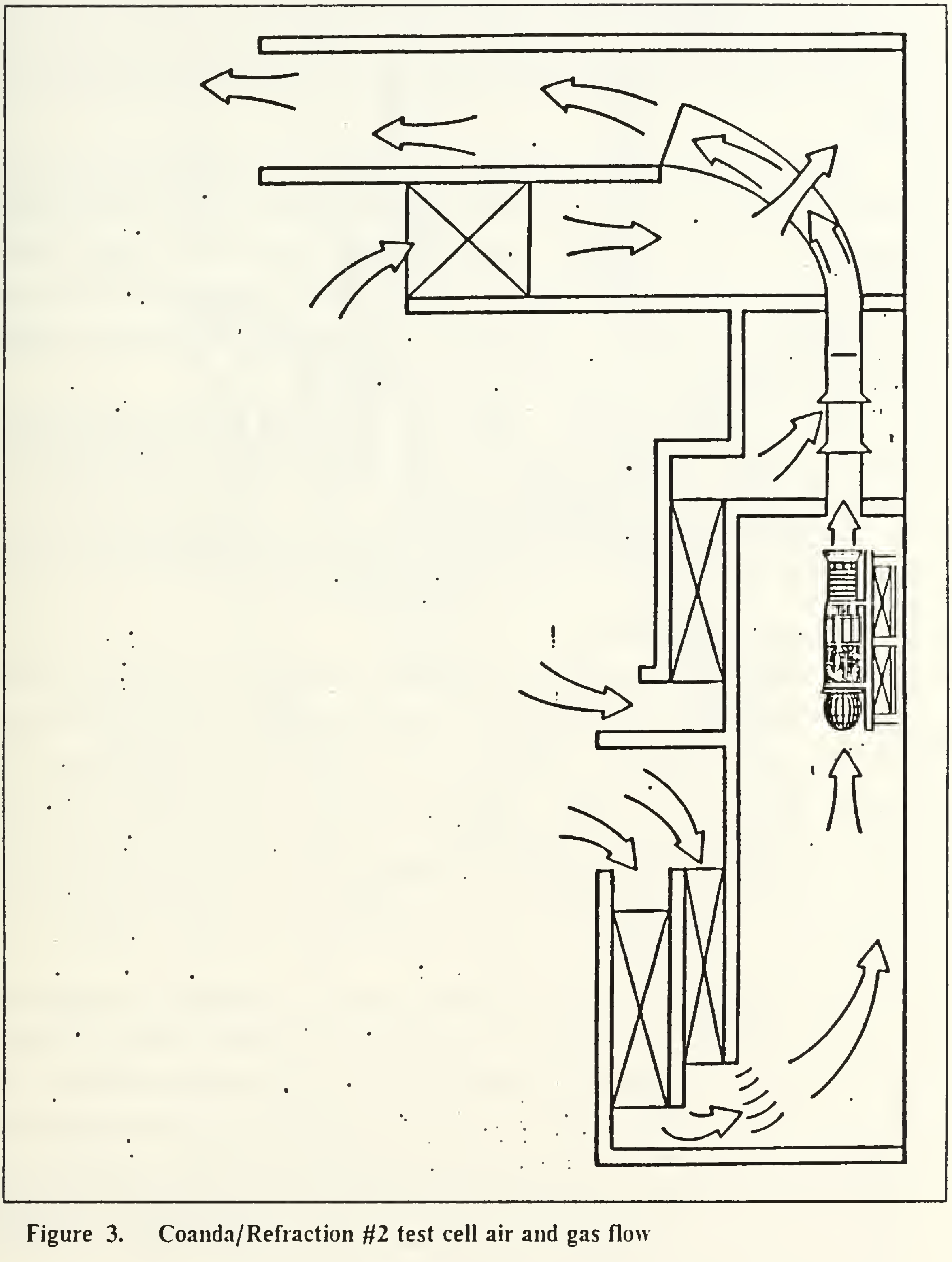


Figure 3. Coanda/Refraction #2 test cell air and gas flow

B. TESTING PROCEDURE

The Coanda Refraction #2 test cell is primarily used for the testing of overhauled gas turbine engines. Upon the completion of its overhaul, the engine is brought to the test facility where it is subjected to a performance test that lasts approximately two hours.

When the engine is ready for testing, it is rolled in through the large double doors located in the inlet bay. The engine is then mounted on the test cradle which stands 1.12 meters (3.70 feet) off the floor. Once the engine is secured and aligned with the centerline of the ejector tube, various monitoring gages for temperature, fuel flow, thrust and pressure are connected. After closing the double doors and ensuring fire fighting equipment is activated in the test facility, testing begins.

The monitoring of the test is conducted by personnel in a control booth located at the side of the test room. The booth is an acoustically insulated compartment containing all monitoring and observation equipment.

The frequency of use of the Coanda facility will vary upon the number of engines ready for testing. Generally the facility is used daily.

C. THE COANDA EFFECT

The Coanda test cell provides a new concept in test cell design. The test cell facility was updated in 1983. The Naval Facilities Engineering Command (NAVFAC) updated this facility with a modified "C" cell retrofit. The retrofit included the replacement of the original exhaust system with the Coanda Refraction noise suppression system and the addition of a new set of acoustic baffles in the secondary air intake. The addition of the after secondary intake was also added to provide additional cooling air (see Figure 2). A diagram of the Coanda surface and its support assembly is given in Figure 4. [Ref. 3: p. 2]

The name "Coanda/Refraction" is based upon the "Coanda Effect". Simply stated, the "Coanda Effect" is the ability of a high energy jet flow (exhaust gases) to attach to a curved surface. Consider a fluid jet approaching a curved surface (see Figure 5). The emerging jet entrains flow along the curved surface, creating a low pressure area adjacent to the jet. This low pressure area (see Figure 6) deflects the jet flow toward the curved surface, thereby creating flow along the curved surface. It is important to note that the higher the energy of the incoming jet, the greater the low pressure area created and thus the greater the tendency of flow to attach to the curved surface.

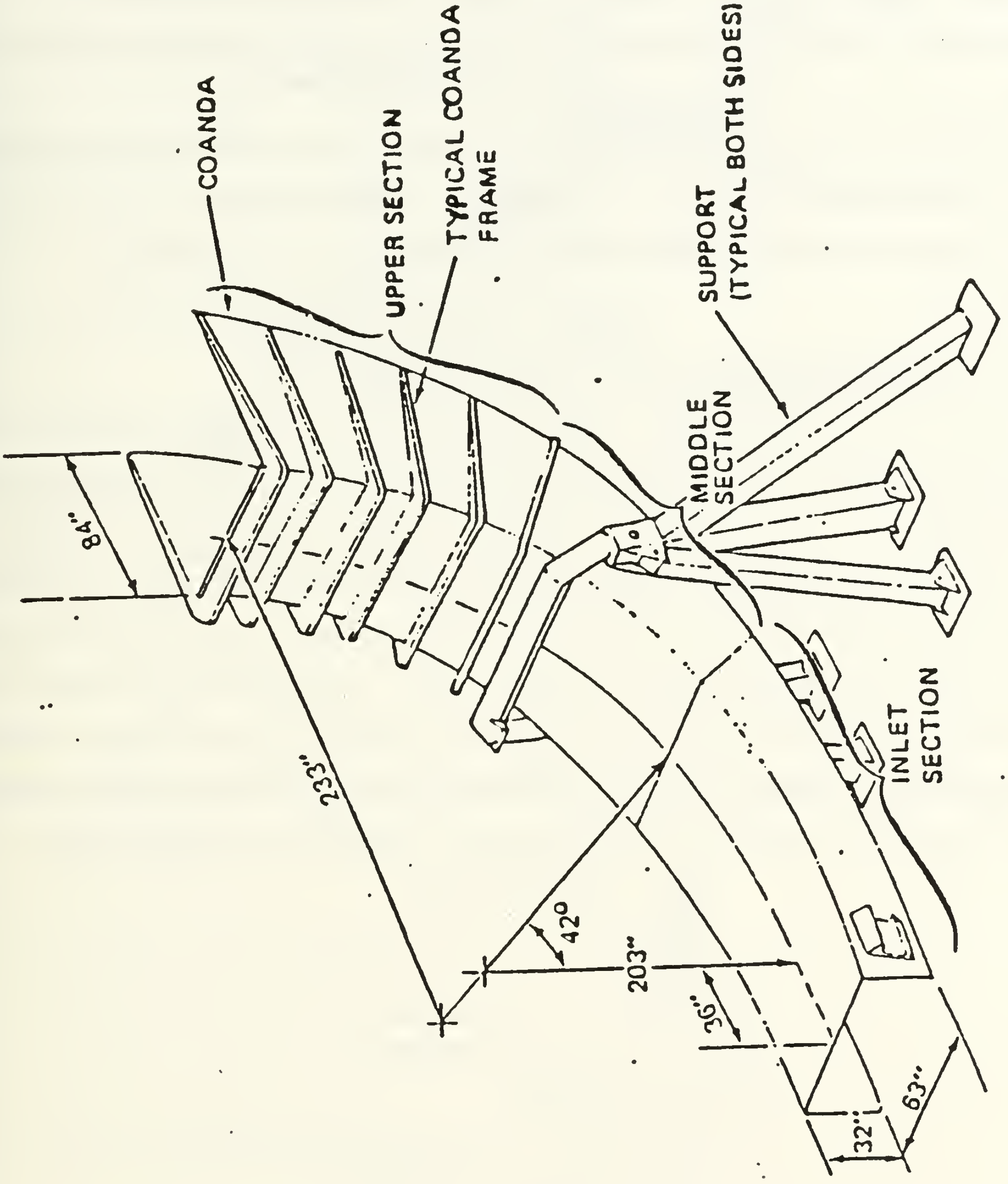


Figure 4. Coanda surface

There are two advantages in using the Coanda/Refraction system. With the tendency of flow to bend towards the Coanda surface, the exhaust gases are maintained at a higher temperature for a longer time period. This allows many of the exhaust pollutants to be burned off, resulting in lower toxic pollutants emitted into the atmosphere.

Another advantage refers to the fact that in high energy jet flow, noise is refracted out of the main flow towards the entrained flow. The refraction of noise towards the Coanda Surface assures that less noise will be emitted into the atmosphere.
[Ref. 4: p. 3]

D. COANDA/REFRACTION TEST CELL STATUS

An on site inspection of the Coanda/Refraction test cell facility in June 88 resulted in several observations. Only test cell# 2 was inspected due to repairs being conducted in test cell #1.

Cell #2 showed moderate spalling and cracking of the concrete walls. The greatest spalling was on the aft (rear) end wall of the exhaust stack. The Coanda and ejector steel structure had surprisingly very minor erosion. There were several sheared bolts throughout the exhaust section of the test cell. Operating and maintenance personnel indicated that the intense heat and vibration tended to loosen and corrode bolts and nuts. Bolts were continuously being replaced and tightened on a regular interval.

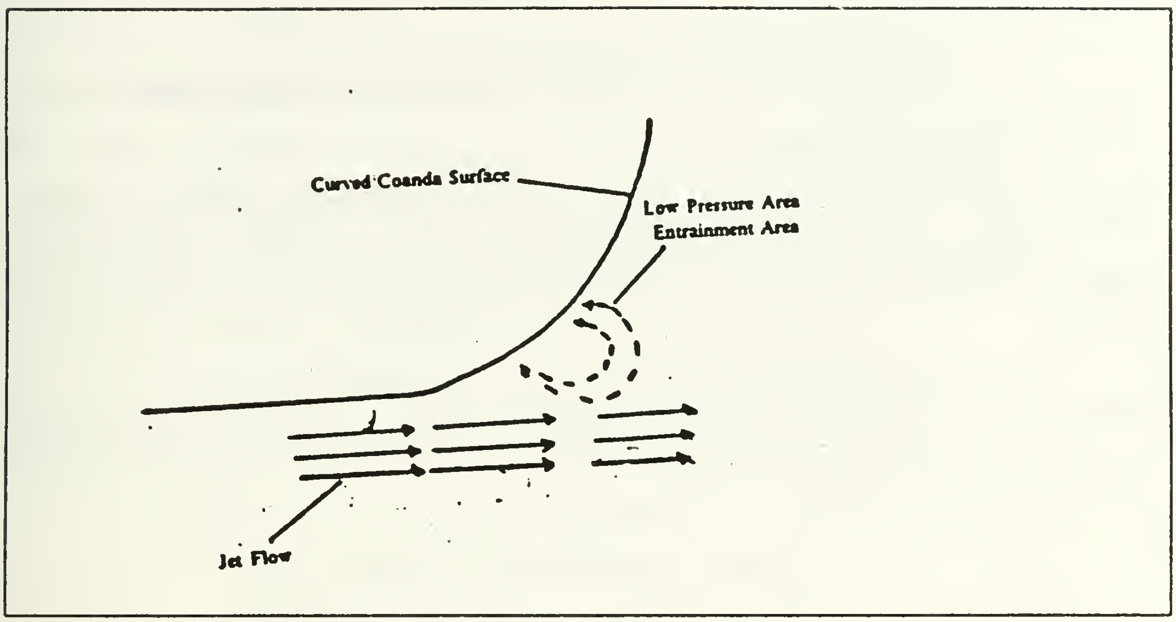


Figure 5. Coanda Effect: Entrainment and low pressure area

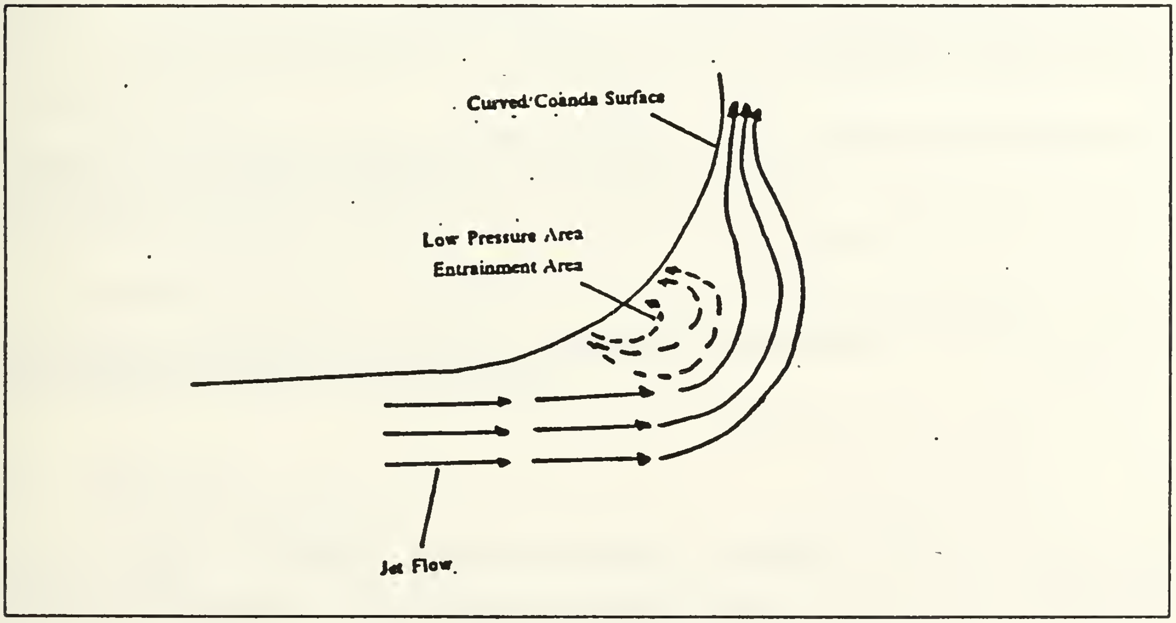


Figure 6. Coanda Effect: Attachment of flow to a curved surface

III. NUMERICAL MODELING USING PHOENICS

A. FIELD EQUATIONS

The numerical modeling of the Coanda/Refraction #2 test cell facility is based upon the conservation laws of energy, mass, momentum, mass of chemical species and turbulence. Each of these conservation laws is represented in a partial differential equation form.

The partial differential equations for these conservation laws are non linear and coupled. All of the conservation laws may be put into the single generalized differential equation: [Ref. 5: p.15]

$$\frac{\delta}{\delta t}(r\rho\Psi) + div(rV\rho\Psi - r\Gamma_{\Psi} grad\Psi) = rS_{\Psi}$$

where:

r = phase volume fraction

ρ = density

V = velocity vector

Ψ = dependent variable for the conservation law in question.

Γ_{Ψ} = exchange coefficient (laminar or turbulent) for the conservation law.

S_{Ψ} = source or sink term

If for example, the generalized differential equation was representing the conservation law of energy then the parameters of the generalized differential equation form would represent the following:

Ψ = h (the specific enthalpy)

$\Gamma_{\Psi} = \lambda_{eff}/c_p$ (the effective thermal conductivity divided by the constant pressure specific heat)

S_{Ψ} = interphase heat transfer

B. DISCRETIZATION

The conservation differential equations must be reduced to linear algebraic equations. The reduction process, called the discretization of the field equations, is usually accomplished by a finite difference or a finite element method. The PHOENICS code used for this research effort discretizes the field equations by the control volume scheme, which has features of both the finite difference and the finite element method. The discretization divides the continuous body into many cells. The dependent values for each cell are then solved for. The solution process is an iterative method in which each iteration is defined as a sweep. The complexity of a problem is illustrated in the number of "Degrees of Freedom" (DOF) variables required to be solved. The total number of DOF variables is equal to seven (the number of dependent variables) times the total number of cells (9729) in the grid model. For example, the Coanda/Refraction model has 65,142 values calculated for each sweep. The sizes and number of grid cells plays a vital role in achieving a solution to a problem. Because a finer grid has more cells than a coarser grid, the number of variables for the finer grid is greater than the number of variables for the coarser grid. That is, there are more algebraic equations to solve. On the other hand, generally fewer iterations are needed for convergence of the finer grid. Nevertheless, computational effort for a finer grid can be expected to be greater than for a coarser grid, but the finer grid produces a more accurate solution.

The discretization of the general differential equation results in the following linearized algebraic equations: [Ref. 6: p.2.4]

$$\Psi_p = \frac{A_E\Psi_E + A_W\Psi_W + A_N\Psi_N + A_S\Psi_S + A_H\Psi_H + A_L\Psi_l + A_T\Psi_T + S}{A_E + A_W + A_N + A_S + A_H + A_H + A_L + A_T + A_p}$$

where

Ψ_p is the value of the dependent variable in a cell. The subscript 'p' denotes the grid point in question.

L,H,W,E,N,S are subscripts that denote the **L**ow, **H**igh, **W**est, **E**ast, **N**orth, **S**outh faces of the cell around point p. (see Figure 7).

Ψ_T is the value of the Ψ_p at the previous iteration.

S, A_p express the influence of sources

A_i denotes the influence coefficients arising from the discretization process, where the subscript "i" denotes a place or iteration.

C. PHOENICS

1. General description

PHOENICS, which stands for Parabolic Hyperbolic or Elliptic Numerical Integration Code Series, is designed to simulate flow and heat transfer processes which are: [Ref. 6: p.1.2]

- One, two or three dimensional

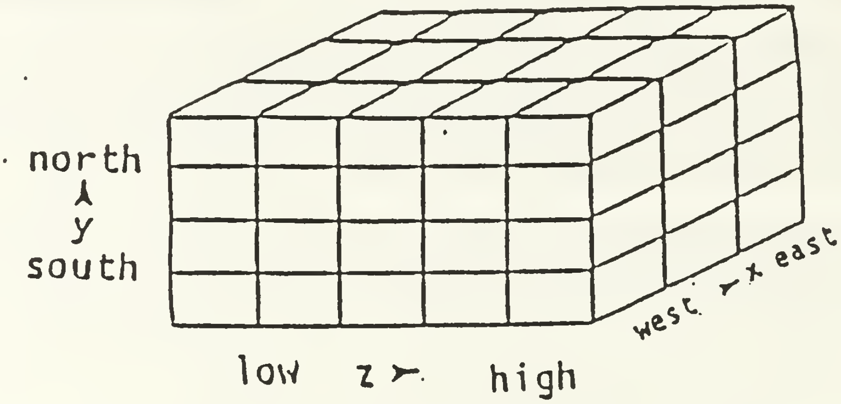


Figure 7. Respective directions at a cell grid point

- Steady or transient
- Single phase, two phase, or multi phase
- Laminar or turbulent
- Subsonic or supersonic
- Chemically reacting or inert

2. Structure of PHOENICS

The PHOENICS code is composed of three major components: EARTH, SATELLITE, and the GROUND STATION. SATELLITE formulates the system to be analyzed, EARTH solves the system equations and the GROUND STATION provides update of nonlinear parameters during the solution process. A description of each of these components follows: (see Figure 8). [Ref. 6: p.1.3]

a. EARTH

The EARTH program contains the built in computational procedures required for PHOENICS. It contains the main flow simulating software which represents the laws of physics as applied to space and time. Modification of EARTH by a user is prevented during the solution process through the GROUND STATION.

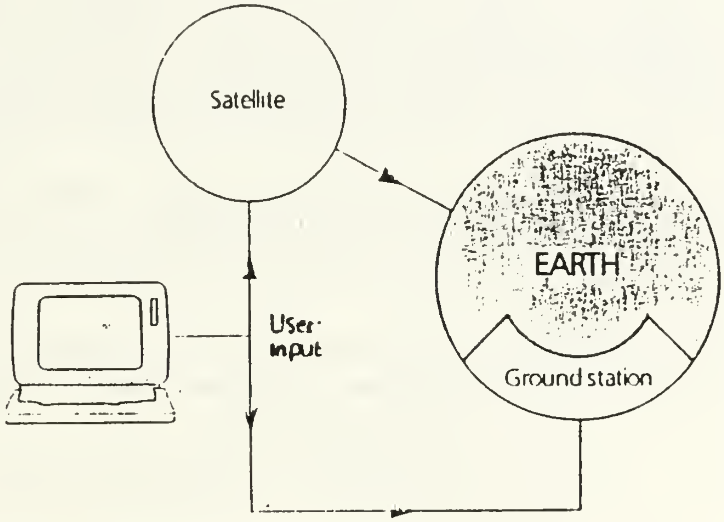


Figure 8. Structure of PHOENICS

By default, EARTH is arranged to solve for up to 25 dependent variables. The variables used in the analysis of the Coanda/Refraction #2 test cell include: pressure, all three dimensional velocity components, enthalpy, turbulent kinetic energy, and turbulent kinetic energy dissipation rate [Ref. 6: p.2.2].

b. GROUND STATION

The GROUND STATION (see Figure 8) is a set of subroutines attached to EARTH to accomodate changes due to the solution process. A user can access GROUND STATION subroutines to insert coding or make modifications to EARTH. Such modifications include: [Ref. 6: p.3.26]

- Modify or replace PHOENICS turbulence models by one of own choosing.
- Provide special fluid property formulae.
- Introduce complex boundary conditions, resistance laws and heat correlation formulas.

c. *SATELLITE*

The SATELLITE program acts as a preprocessor to EARTH. Its function is to create a data file containing the problem statement to be read by EARTH.

The interaction between SATELLITE and EARTH is unidirectional. Information is transmitted from SATELLITE to EARTH. If any problem parameters are functions of the solution, then a GROUND STATION program must be written to modify EARTH.

There are three methods of data input available on SATELLITE. They include the interactive mode, the quick input mode and the Fortran input mode: [Ref. 6: p.3.6].

- In the interactive mode, data is supplied by the user interactively. This method is designed to assist in learning the system. If the user makes a typing or logic mistake, he is informed immediately before proceeding.
- The quick input mode provides the problem data input directly as a compact data file.
- In the Fortran input mode, the user can access and modify a Fortran subroutine named "SATLIT".

For the modeling of the Coanda/Refraction #2 test cell, a Q1 file was created in SATELLITE. The Q1 file is arranged into 24 group data structures in which all aspects of the problem such as physical dimensions, boundary/initial conditions, porosity, known values of temperature, velocity, and pressure are defined. Appendix A provides the Q1 file used in the modeling of the Coanda/Refraction #2 test cell facility. Since the Coanda test cell is symmetrical, only half the test cell (engine, augmentor tube, Coanda surface) were modeled in the Q1 file. Note the Q1 file is not a fortran program. [Ref. 6: p.3.6]

The ordering of the 24 group data structure used in the modeling of Coanda/Refraction #2 test cell facility conformed to the recommended sequence provided in the PHOENICS User's Manual (reference six). This sequence provides a well thought out flow simulation of the problem description.

The following is a description of some of the groups of the 24 group data structure used in the Coanda/Refraction test cell (see Appendix A). Not all 24 groups were needed to model the Coanda/Refraction test cell facility.

(1) Group 1-Run identifiers and other preliminaries. Group 1 provides the title information of the Q1 file and identifies all parameters as real or integer quantities

(2) Group 2-Time Dependence. Group 2 contains time dependence options (i.e. steady state or transient). In the Coanda/Refraction test cell a steady state time dependence is used.

(3) Groups 3-5-X, Y, Z grid specification. Groups 3-5 provide the grid specifications in the X, Y, and Z direction. The Cartesian Coordinate system was chosen due to its simplicity and ease of modeling characteristics. The number and size of grid cells used plays an important role in obtaining a solution to the problem.

A trial and error procedure was used to obtain the number and size of grid cells used. The method used for selecting a grid model was to achieve the grid with fewest cells which produced reasonable flow and temperature fields. The number of grid cells used in the Coanda/Refraction # 2 test cell include:

X direction "NX": 9 grid cells (see Figure 9)
Y direction "NY": 23 grid cells (see Figure 10)
Z direction "NZ": 47 grid cells (see Figure 10)

In anticipated areas of high turbulence, large temperature gradients, and large velocity gradients, a fine grid was modeled for better results. The particular areas of interest include the engine outlet, inlet to the augmentor tube, the after secondary inlet and the exhaust stack (see Figure 2 on page 6).

(4) Group 6-Body fitting and other grid distortions. Group 6 provides the use of the body fitted coordinate system (BFC). Because of time limitations for this research activity, BFC was not used in the modeling of the Coanda/Refraction test cell.

(5) Group 7-Variables (including porosities) named, stored & solved. Group 7 provides various commands which determine which variables are to be stored and/or solved for. Group 7 also provides various solution schemes which include the slab wise, the whole field and the point to point iteration . A description of these solution options is provided in the PHOENICS User's Manual. The important point is that all these schemes will lead to the same converged solution, however differences will lie in the storage and computer time needed. By using the SOLUTN command for example, a user can indicate the solution method desired as well as what dependent variables to solve for.

(6) Group 9-Physical properties of the medium. Group 9 provides all boundary condition parameters around the test cell, the fluid properties of the medium

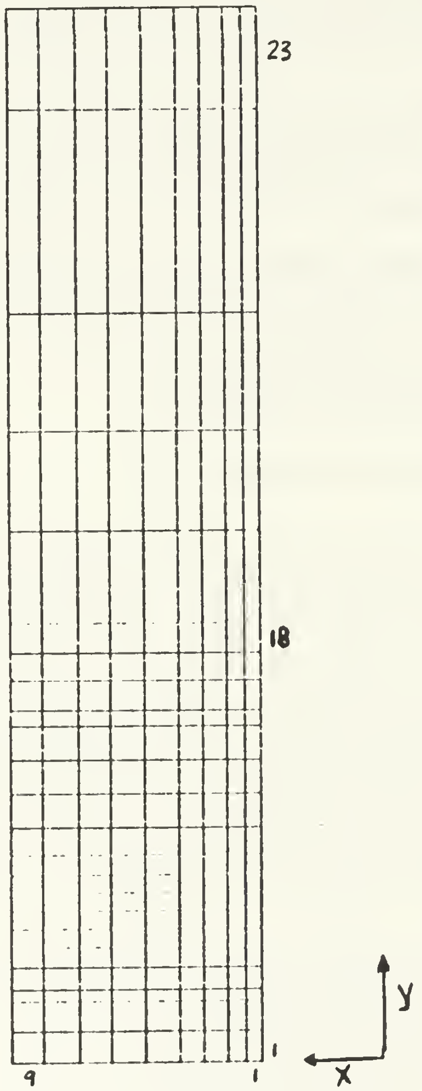


Figure 9. Coanda/Refraction test cell in X Y plane

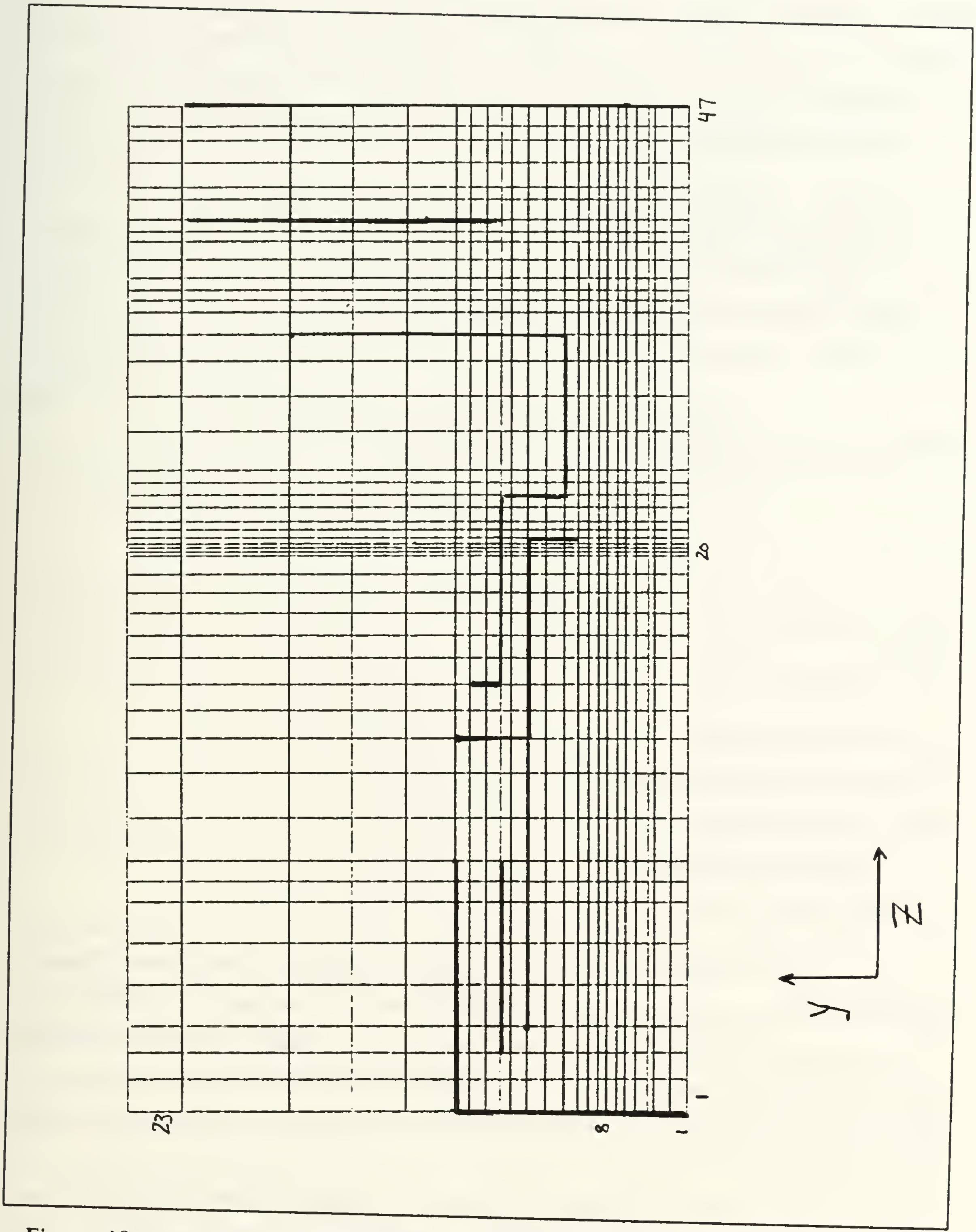


Figure 10. Coanda/Refraction test cell in Y Z plane

(air and exhaust gases), and all engine parameters. A list of the properties specified include:

- ambient pressure= 101325 Pa
- ambient temperature= 295 K
- mass flow of the engine= 175 kg/s
- gas constant= 286 Joules/kg-K
- c_p= 1004 Watt-s/kg-K
- engine exhaust stagnation temperature= 2000 K
- "no slip", friction, on all surfaces

A turbulence model "KEMODL" is also selected in Group 9. The "KEMODL" is governed by the following equations:

$$v_t = C_\mu k^{.5} l_m$$

$$l_m = C_D k^{1.5} \varepsilon$$

where:

v_t= turbulent viscosity

C_μ= viscosity constant

k= turbulence kinetic energy

l_m= turbulent mixing length

C_D= dissipation constant

ε= kinetic energy dissipation rate

(7) Group 11-Initialization of fields of variables, porosities, etc. Group 11 provides various commands that define initial dependent variables. The PATCH command for example, defines regions in space and time over which initial values, boundary conditions or sources are to be set. Other commands for field initialization that are described in the PHOENICS User's Manual (reference six) include the FINIT and INIT commands.

(8) Group 13-Boundary and internal conditions. Group 13 provides commands for the full or partial blockage of flow at desired places. The CONPOR statement is a key word command that provides for structural flow obstructions as well as desired wall friction.

(9) Group 15-Termination criteria for sweeps and outer iterations. Group 15 allocates a total number of iterations (sweeps) for a particular computer run. For example, 100 sweeps were run during a one hour of cpu time (actual computational time). A total of 30,000 sweeps or an equivalent of 240 hours of cpu time was used in this problem.

(10) Group 16-Termination criteria for inner iterations. Group 16 provides a user specified number of iterations within a slab (a slab contains all cells at a particular "Z" location) before proceeding to the next slab. If for example, a greater number of iterations for pressure was required to increase the rate of convergence, then the LITER command can be used to increase the number of iterations within a slab for pressure.

(11) Group 17-Under relaxation and related devices. Group 17 provides the user with the RELAX command. RELAX allows the manipulation of the rate of convergence (See **3.Convergence/Divergence** page 21 for more detail).

(12) Group 18-Limits on variable values. Group 18 allows setting the maximum and minimum values for the dependent variables through the use of VARMAX and VARMIN commands. The maximum and minimum values established by these two commands are used in controlling divergence of any dependent variables (see PHOENICS User's Manual, reference six).

(13) Groups 19-23-Print control outputs. Groups 19-23 provide various print control options. Contours and profiles for any of the dependent variables can be obtained as part of the hard copy of the computer results. Contour diagrams are plotted over area domains, while profile curves are plotted over a single axis domain.

(14) Group 24-Preparation for continuation runs. Group 24 provides various restart capability options. Since the solution to the modeling of the Coanda/Refraction #2 test cell required thousands of iterations, a restart capability was necessary. After every computer run, the final output is written into a restart file named DF09. The DF09 file output was then used as the input to the next computer run.

The DF09 file can also be used by PHOTON. PHOTON is a graphical display software that provides contour lines of pressure and temperature as well as vector representation of velocity.

3. Convergence/Divergence

The determination of whether a problem is reaching a valid solution is based on various factors. One major factor is the "convergence" (or "divergence") of a solution through the analysis of the "residual values" which are given after every sweep.

Residual (difference) values are determined by comparing the values of the dependent variables with their preceding sweep values. If the residual is decreasing, then the solution is converging. If the residual is increasing, then "divergence" is occurring and corrective steps must be taken in order to attain a correct solution.

Achieving a successful solution is dependent upon the experience of the user in providing an accurate model of the problem and choosing effective settings of PHOENICS solution controls. If a solution is "diverging" the user can apply the RELAX command to revert into a "converging" solution. The RELAX command manipulates the rate of change of the dependent values during the solution process. A small RELAX value permits only small value differences per iteration. This will reduce divergence but will require additional iterations and more computer resources. Conversely, a large RELAX value permits large value differences per iteration. A large RELAX value would result in less iterations but could lead to a divergence of a problem. A good selection of RELAX parameters results in a converged solution in a timely manner.

IV. RESULTS

A. EXPERIMENTAL RESULTS

1. Test A

The experimental test data was obtained from two reports. The first report, which will be identified as test "A" was contracted to Coastal Marine Research Inc. (CMR) by Naval Ocean Systems Center. The testing was conducted over a four day period (15-18 Aug 1983) and involved the evaluation of the aerothermodynamic characteristics of the Coanda/Refraction test cell, the facility discussed in this thesis.

All pressure readings were measured by a combination of pressure gauges and U tube manometers. Temperature data was measured by type K (chromel-alumel) thermocouples and DORIC DS-300 therm indicators.

Instrumentation was located at all inlet and exhaust outlets and throughout the Coanda surface. At the exit of the Coanda surface, CMR installed a special Coanda exit rake (see Figure 11) which contained a total of nine pressure probes and eight thermocouples.

2. Test B

The second test data report (Test B) was conducted by the Naval Air Propulsion Center in Oct 1987. Velocity and pressure readings were taken with the Compuflow Electro Manometer. Figure 12 provides specifications on the Compuflow Electro Manometer. Instrumentation of Test B was located at all inlets and excluded the exhaust stack outlet and the Coanda surface.

B. DISCUSSION OF GRID REFINEMENT

The numerical data obtained through PHOENICS is based upon the grid model given in Chapter 3 Page 17 (NX = 9 cells, NY = 23 cells, NZ = 47 cells). This was the last of four grid configurations.

The first grid configuration consisted of NX = 8, NY = 19, and NZ = 32 cells. This grid configuration proved too coarse and convergence was not possible. The temperature variable tended to dominate the whole field, resulting in extremely high temperatures permeating throughout the Coanda test cell facility. Attempts to suppress temperature were not successful.

In the second grid configuration,"NZ" was increased to 40 cells while maintaining NX = 8 cells and NY = 19 cells. The second grid configuration still needed refining at the

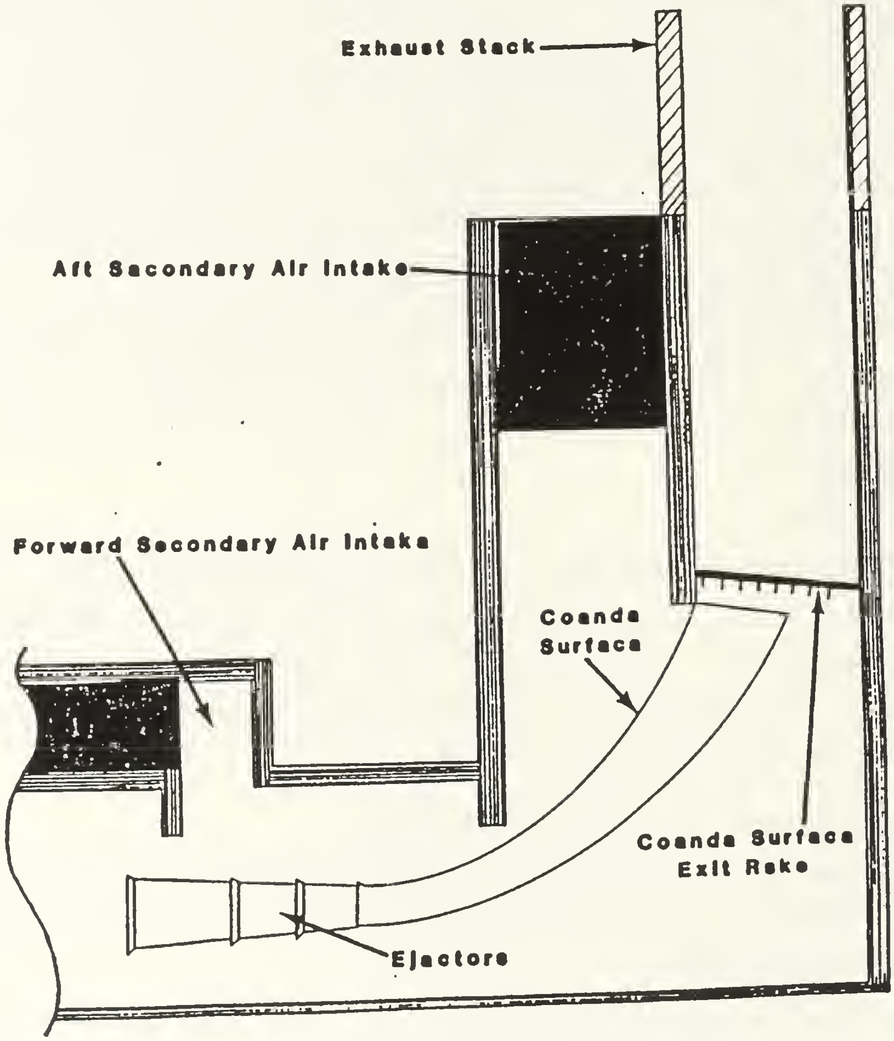
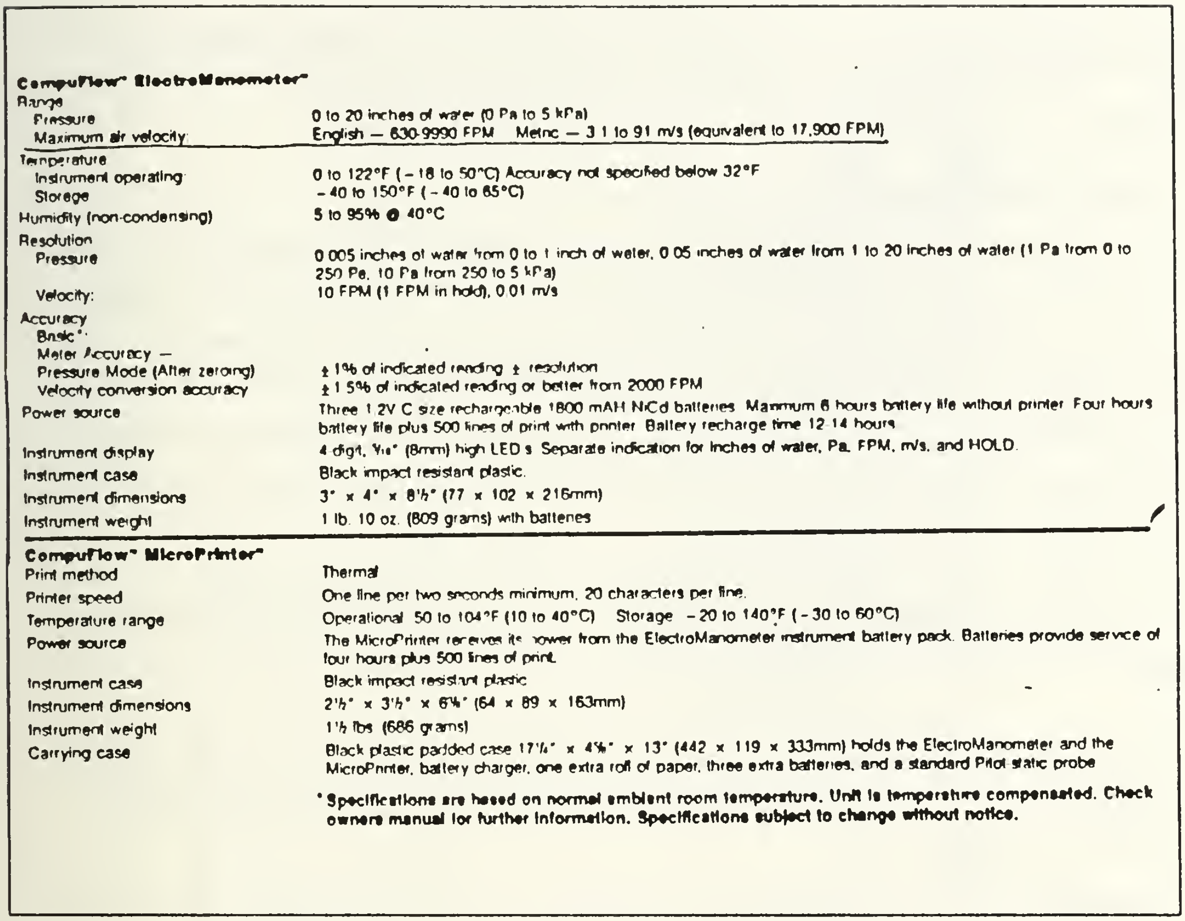


Figure 11. Coanda exit rake



CompuFlow™ ElectroManometer™	
Range	
Pressure	0 to 20 inches of water (0 Pa to 5 kPa)
Maximum air velocity:	English — 630-9990 FPM Metric — 3.1 to 91 m/s (equivalent to 17,900 FPM)
Temperature	
Instrument operating:	0 to 122°F (−18 to 50°C) Accuracy not specified below 32°F
Storage	−40 to 150°F (−40 to 65°C)
Humidity (non-condensing)	5 to 95% @ 40°C
Resolution	
Pressure	0.005 inches of water from 0 to 1 inch of water, 0.05 inches of water from 1 to 20 inches of water (1 Pa from 0 to 250 Pa, 10 Pa from 250 to 5 kPa)
Velocity:	10 FPM (1 FPM in hold), 0.01 m/s
Accuracy	
Basic*:	
Meter Accuracy —	
Pressure Mode (After zeroing)	± 1% of indicated reading ± resolution
Velocity conversion accuracy	± 1.5% of indicated reading or better from 2000 FPM
Power source	Three 1.2V C size rechargeable 1800 mAH NiCd batteries. Maximum 6 hours battery life without printer. Four hours battery life plus 500 lines of print with printer. Battery recharge time 12-14 hours.
Instrument display	4 digit, 5/16" (8mm) high LED's. Separate indication for inches of water, Pa, FPM, m/s, and HOLD.
Instrument case	Black impact resistant plastic.
Instrument dimensions	3" × 4" × 8½" (77 × 102 × 216mm)
Instrument weight	1 lb. 10 oz. (809 grams) with batteries
CompuFlow™ MicroPrinter™	
Print method	Thermal
Printer speed	One line per two seconds minimum, 20 characters per line.
Temperature range	Operational 50 to 104°F (10 to 40°C) Storage −20 to 140°F (−30 to 60°C)
Power source	The MicroPrinter receives its power from the ElectroManometer instrument battery pack. Batteries provide service of four hours plus 500 lines of print.
Instrument case	Black impact resistant plastic
Instrument dimensions	2½" × 3½" × 6⅜" (64 × 89 × 163mm)
Instrument weight	1½ lbs (686 grams)
Carrying case	Black plastic padded case 17¼" × 4⅝" × 13" (442 × 119 × 333mm) holds the ElectroManometer and the MicroPrinter, battery charger, one extra roll of paper, three extra batteries, and a standard Pitot static probe

***Specifications are based on normal ambient room temperature. Unit is temperature compensated. Check owners manual for further information. Specifications subject to change without notice.**

Figure 12.   Compuflow Electro Manometer Specifications

outlet of the engine and in the exhaust stack (see Figure 2 on page 6 for component diagram). Temperature, again continued to dominate the solution field, and further refinement of the grid was necessary. Based upon previous modeling work of other test cell facilities with PHOENICS, temperature has had tendencies to dominate the solution field.

In the third grid configuration ($NX = 8$, $NY = 20$ and $NZ = 43$), the computer results reflected a more logical solution. Temperature, as well as all other variables, appeared reasonable. A final refined grid configuration of $NX = 9$, $NY = 23$ and $NZ = 47$ was used in obtaining a solution. It was felt that the additional cells would provide a more accurate solution.

It is important to note that the solution obtained in this thesis is not grid independent. Time constraints prevented trying other finer grid configurations to verify grid independence. Appendix B provides a sample computer output run.

C. FLOW DIRECTIONS

The numerical data was qualitatively in good agreement with the designed flow path of air and exhaust gases through the Coanda/Refraction test cell (see Figure 3 on page 7). That is, all velocity components (u v w) correlated to expected flow patterns. Air entered the primary intake in route to the engine inlet. The forward and after secondary intakes provided cooling air for the exhaust gases. The ejector tubes provided the mixing of cooling air and exhaust gases. The exhaust stack allowed exhaust gases to exit into the atmosphere.

Through the use of PHOTON, the graphical software discussed in chapter 3, a vector representation of flow is presented in Figure 13 to Figure 15. All PHOTON figures presented in this thesis are identified by the first and last slabs of the region in discussion.

In Figure 13 flow can be seen entering the primary air inlet and coming around to the inlet bay area in route to the engine inlet. Note the velocity increase as flow approaches the engine.

Figure 14 represents the flow region around the engine. In Z slab 12, one can see the convergence of the vectors towards the engine inlet. The flow vectors above the engine are small in magnitude and tend to flow towards the engine outlet.

The engine exhaust area (starting at Z slab 30) to the exhaust stack is represented in Figure 15. Note the large vector representations. Also one can see the flow bending towards the exhaust stack.

D. NUMERICAL MODEL VS. EXPERIMENTAL RESULTS

1. Upper Primary Inlet

Before proceeding with a discussion of analytical versus experimental results, it should be stated that neither experimental nor analytical data are precise results. The experimental data measurements of both test A and test B were subject to tremendous pressure and temperature fluctuations. The Coanda test cell facility provided a less than desirable environment for measurement testing. The high vibrations and exhaust temperatures hampered accurate test measurements. [Ref. 7]

The analytical model had two major inconsistencies. The specific heat for constant pressure, c_p , was maintained at 1004 watt-s/kg-K throughout the test cell. This c_p

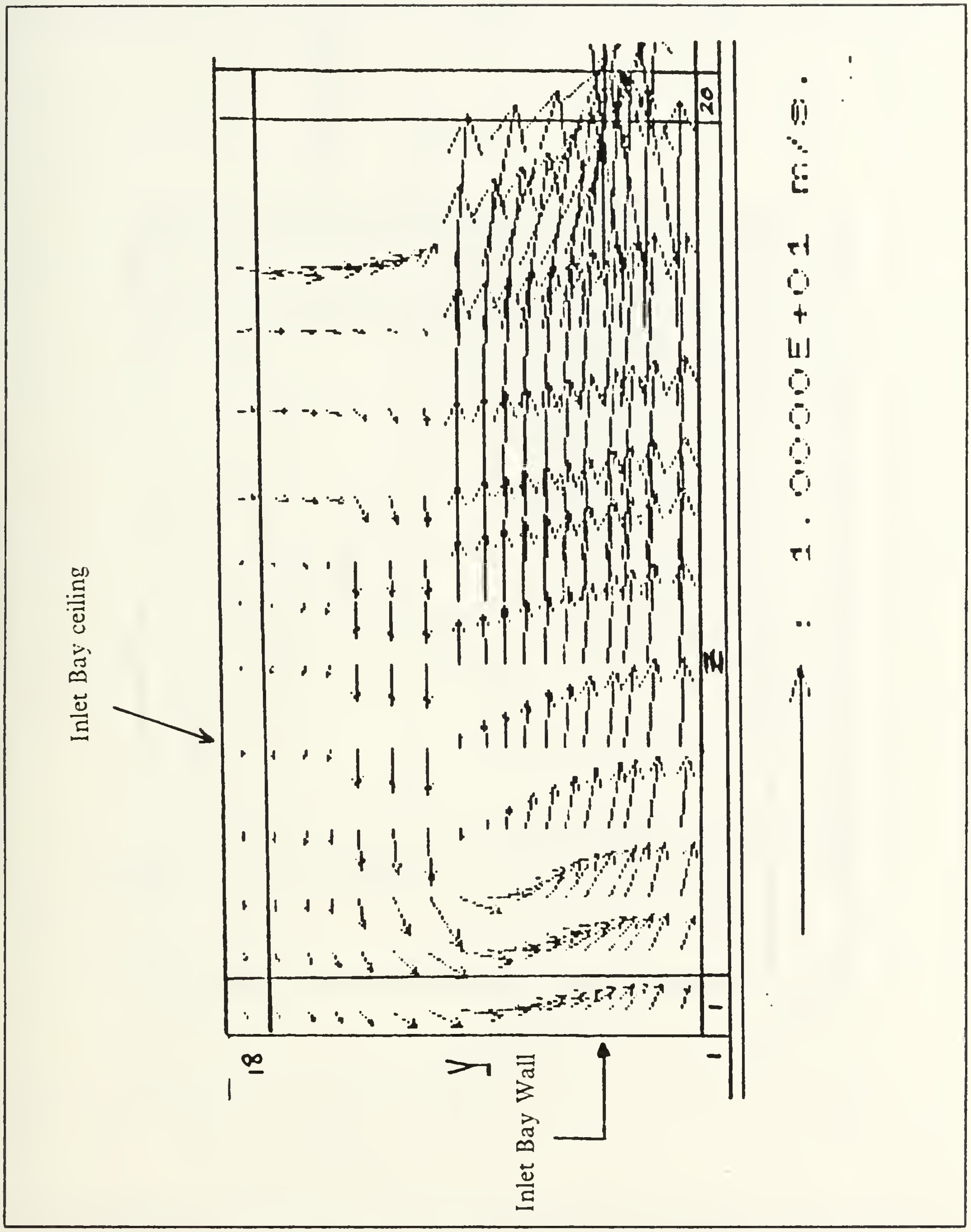


Figure 13. Flow vector plot in Y-Z plane (Primary inlet to inlet bay)

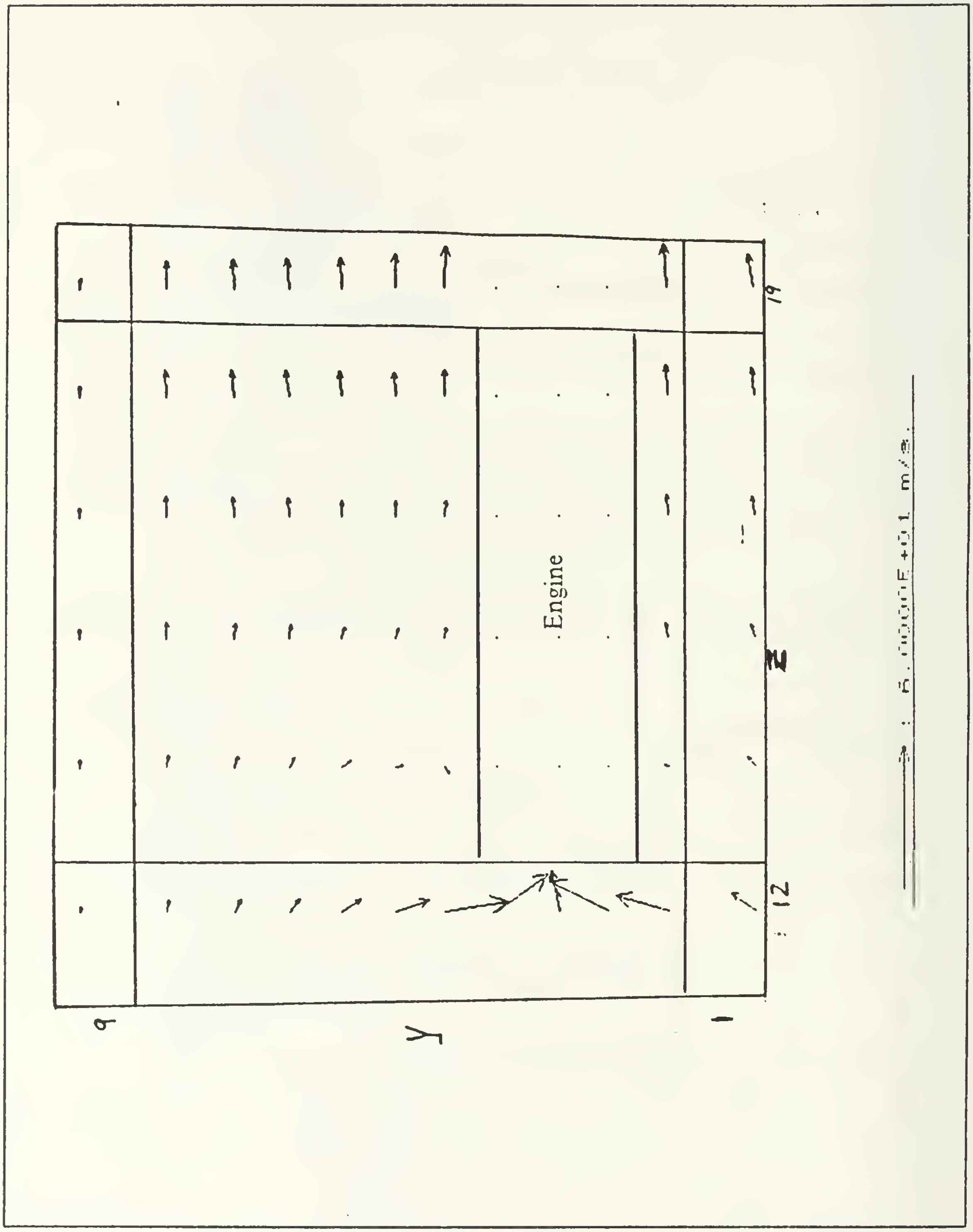


Figure 14. Flow vector plot in Y-Z plane (Region around the engine)

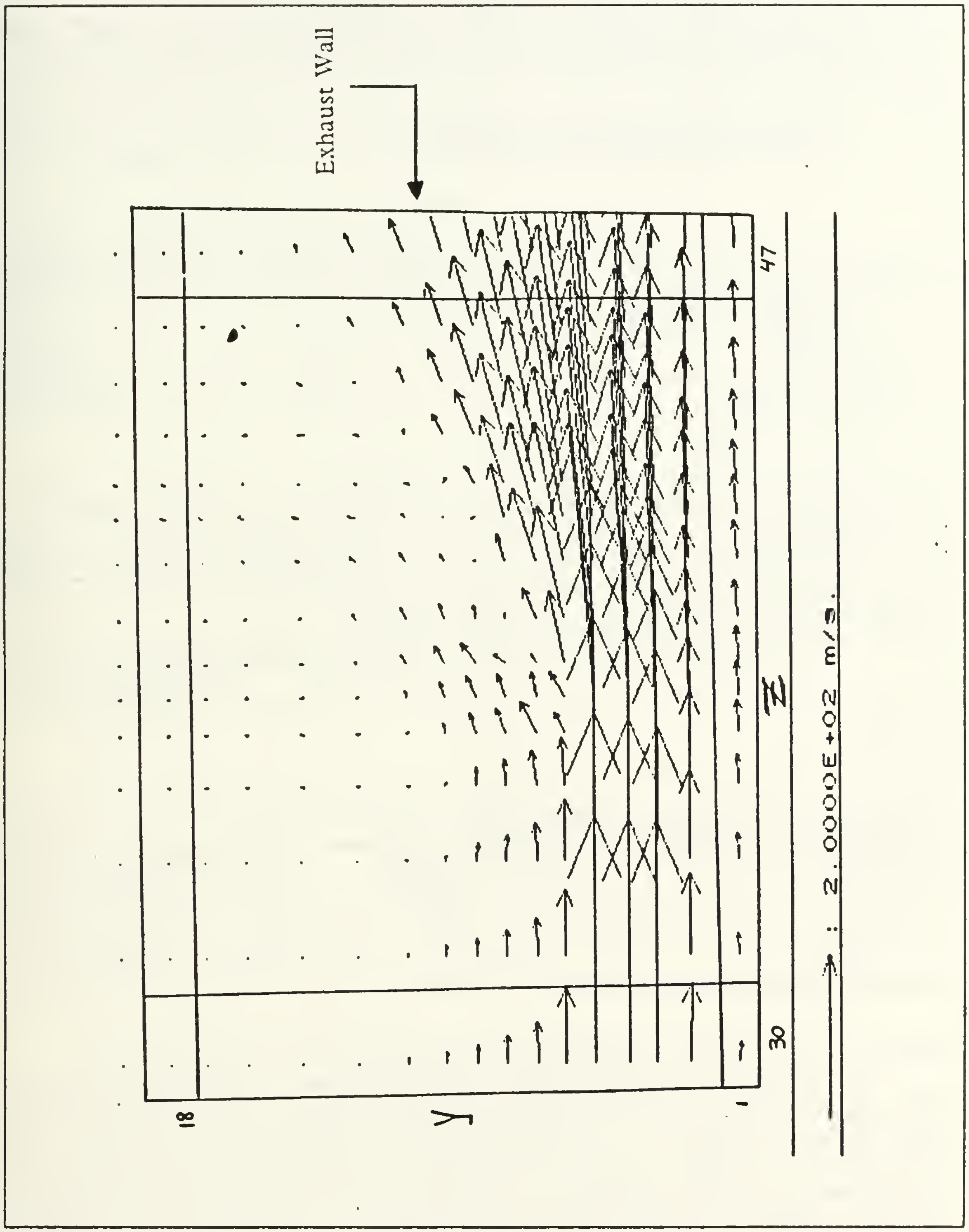


Figure 15. Flow vector plot in Y-Z plane (Engine outlet to exhaust stack)

value is good for only ambient temperature. Thus as temperature fluctuations occurred through the test cell, c_p should have varied accordingly. For the temperature ranges of this investigation, c_p varies from 1004 watt-s/kg-K at 295 K to 1310 watt-s/kg-K at 2000 K.

Using the mass flow rate equation of

$$\dot{m} = \rho A w$$

where:

$\dot{m}$ is the mass flow rate

ρ is density

"A" is the area

"w" is the velocity

the analytical model had discrepancies. For example, the required mass flow rate out of the engine was set at 175 kg/s. The mass flow rate through the primary inlet (provides air to engine inlet) was only 41 kg/s. This low mass flow rate results in low velocities which is evident in the analytical results that follow.

A comparison of numerical model results to experimental results in the upper primary inlet (see Figure 2 on page 6 for exact location) are provided in the following table.

Table 1. UPPER PRIMARY INLET

Results	Axial Velocity(m/s)	Temperature (K)
Test A	10.7	295
Test B	10.4	295
Analytical	.3	295

Although temperature (ambient) matched exactly, the predicted axial velocity (w component) was much lower than experimental results. There was little activity in the upper primary inlet. The numerical data for example indicated a vertical velocity (v component) of less than .006 meters/second (m/s). The velocity in the u component was .01 m/s. Turbulence was negligible and the static pressure differential was -2.48 Pascals (Pa). Note that all pressures are given as the difference from the ambient pressure (101325 Pa).

2. Lower Primary Inlet

Due to the design characteristics of the Coanda test cell facility, a higher axial velocity was expected in the lower primary inlet in comparison to the upper primary inlet (see Figure 2 on page 6 for exact location). As can be seen in the following table, the lower primary inlet did have higher velocities than the upper primary inlet.

Table 2. LOWER PRIMARY INLET

Results	Axial Velocity(m/s)	Temperature (K)
Test A	14.6	295
Test B	18.7	295
Analytical	1.5	295

The analytical axial velocity was extremely low in comparison to the experimental velocity. The numerical model indicated little activity in the lower primary inlet. The vertical velocity (v component) was .008 m/s while velocity in the u direction was .001 m/s. The static pressure differential was -9.48 Pa. Turbulence, as in the upper primary inlet was also negligible.

3. Inlet Bay

Since no experimental data was available for the inlet bay area (see Figure 2 on page 6 for exact location), information about inlet bay behavior was obtained from interviews with the operating personnel of the Coanda test facility. The information included: [Ref. 8]

- temperatures throughout the inlet bay area are ambient (295 K).
- velocity throughout the inlet bay area increases as flow approaches the engine inlet.

Analytical results supported personnel observations. Temperature was ambient (295 K) throughout the inlet bay. Velocity did increase as flow approached the engine inlet. For example, at eight meters from the engine inlet, the axial velocity was 2.9 m/s. At a distance of two meters from the engine inlet, the velocity had increased to 10 m/s. The numerical model indicated that velocities in both the Y and X directions were minimal. The analytical static pressure differential did increase to -122 Pa at the engine inlet.

4. Engine outlet region

The engine outlet region (see Figure 2 on page 6 for exact location) begins at the engine outlet and extends 6.6 meters to the end of the ejector tubes. This area contains the highest temperatures and velocities found in the Coanda test cell facility. Flow from the engine outlet region to the Coanda surface is turbulent (a Reynolds number of 13E+6 is calculated in Figure 16).

Experimental data was not available for the engine outlet region. Analysis of the numerical data indicated tremendous flow activity in the engine outlet region. The following table presents the numerical data at the engine outlet.

Table 3. ENGINE OUTLET

Results	Axial Velocity (m/s)	Vertical Velocity (m/s)	Static pressure differential (Pa)	Turbulence (Joules)
Analytical	800	71	+28568	25000

Note the high positive static pressure differential at the engine outlet. The large axial and smaller vertical velocities coupled with large turbulence of 25,000 Joules indicate a tremendous amount of turbulent mass flow traveling through the ejector tubes. In the area around the ejector tubes, the flow is more stable. Axial velocity (w component) is 20 m/s while the vertical velocity (v component) is 4 m/s. Velocity in the u component is 5 m/s.

5. Forward Secondary Air Intake

The analytical and experimental results for the forward secondary air intake (see Figure 2 on page 6 for exact location) are:

Table 4. FORWARD SECONDARY AIR INTAKE

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	9.6	295
Test B	29.7	295
Analytical	4.4	295

It is interesting to note the significant difference of the vertical velocities (v component) between the two experimental tests (test A, test B). Test B with a vertical velocity of

$$Re = \frac{\rho w L}{\mu}$$

ρ = density at 2000 K---.174 kg/m^3

w = axial velocity---800 m/s^2

L = length of engine outlet region---6.6 m

μ = viscosity at 2000 K---689E-7 N s/m^2

Re = Reynolds number---13E+6

Figure 16. Reynolds number calculation

29.7 m/s is over three times as large as the vertical velocity of test A. The analytical vertical velocity results provide a significantly lower velocity than the experimental results. The analytical model indicated a static pressure differential of -40 Pa. The axial velocity (w component) was 1.3 m/s. Velocity in the x direction (u component) was negligible.

6. After Secondary Air Intake

The experimental and analytical results for the after secondary air intake follow:

Table 5. AFTER SECONDARY AIR INTAKE

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	12.4	295
Test B	34.0	295
Analytical	2.0	295

Significant differences between the experimental and analytical data are apparent. The analytical vertical velocity of 2.0 m/s is much lower than the 12.4 m/s and 34.0 m/s obtained in test A and test B respectively. Small flow activity through the after secondary inlet was indicated in the analytical model. The analytical static pressure differential was only -13 Pa. The axial (w component) velocity was .18 m/s while velocity in the u direction was .2 m/s. The analytical turbulence was a negligible .45 Joules.

7. Coanda Surface

The Coanda surface (see Figure 2 on page 6 for exact location) extends from the end of the ejector tube to approximately midway up the exhaust stack. The analytical and experimental results are presented in the following table.

Table 6. COANDA SURFACE (AT THE EXIT RAKE)

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	84.7	1000
Test B	----	----
Analytical	48.0	810

Note that the exact location of the experimental and analytical results in Table 6 is at the Coanda exit rake (see Figure 11 on page 24 for exact location).

The analytical vertical velocity was lower than the experimental data of test A. A temperature correlation between analytical and experimental data provided a 20% difference in temperature.

The numerical model indicated some flow activity at the exit rake of the Coanda surface. The analytical axial velocity (w component) was 28 m/s while turbulence was 721 Joules. The analytical pressure differential was -74 Pa.

8. Exhaust Stack

Experimental data on the exhaust stack was not available. Interviews with the operating personnel of the Coanda test cell facility indicated that the exit exhaust stack temperature was approximately 322 K (118 F) [Ref. 8]. The analytical temperature of 325 K (122 F) compared quite favorably with the 322 K approximation. An exit velocity of 3.9 m/s was obtained in the exhaust stack.

E. PROFILES

Using the analytical data obtained through PHOENICS, profiles of temperature, axial velocity, and pressure differential were plotted over the Z axis domain at IY=4 and IX=1.

1. Temperature profile

In the temperature profile (see Figure 17) an ambient temperature of 295 K can be found throughout the inlet bay (IZ=1 to 12). At IZ=20, the engine outlet temperature is 2000 K. The temperature begins to decrease immediately after slab 20. Note the 60% temperature drop from the engine outlet to the entrance region of the ejector tubes (IZ=27). From the ejector tubes to the entrance of the Coanda surface (IZ=27-35), the temperature drops by another 7%. The remaining temperature drop occurs through the Coanda surface and the exhaust stack. The exit exhaust stack temperature is 325 K.

2. Pressure differential profile

The pressure differential (Figure 18) throughout the inlet bay (IZ=1 to 12) is constant. At the engine inlet, slab 12, a slight negative pressure differential of -122 Pa is formed. At the outlet of the engine (IZ=20), a positive pressure differential of 28,000 Pa is observed. A negative pressure differential of -8000 Pa occurs at the entrance region of the ejector tubes (IZ=24). Another large negative pressure differential of -15000 Pa is formed in the ejector tubes (IZ=27). In the Coanda Surface (IZ=35 to 38), a negative pressure differential of -2000 Pa is observed.

3. Axial velocity profile

The axial velocity (see Figure 19) increases through the inlet bay area (IZ=1 to IZ=12). At the engine inlet (IZ=12), the axial velocity increases to 28 m/s. A maximum axial velocity of 860 m/s occurs at the engine outlet area (slab 22). At slab 26, the ejector tube inlet, the velocity decreases by 22% to 650 m/s. At the inlet of the Coanda surface (IZ=34), another 31% decrease of axial velocity (to 380 m/s) is observed.

F. CONTOURS

1. Temperature contours

Figure 20 to Figure 22 provide temperature contours throughout the Coanda test cell facility. Since the temperature throughout the inlet bay was ambient (295 K) temperature contours in that region were not necessary. Figure 20 represents the engine exhaust region (IZ=20-30). Note the high temperatures around the engine outlet.

In Figure 21 temperature contours from the engine outlet to the exhaust stack can be seen. Again, the temperature is highest at the engine outlet and quickly cools off downstream from the engine.

The last temperature contours Figure 22 represent the exhaust region from slabs 31 to 47. Note the segmented (step) region. This area illustrates the dispersion of temperature along the Coanda Surface. The segmented geometry representing the Coanda surface is a result of using the Cartesian Coordinate system to approximate the circular shape of the Coanda surface.

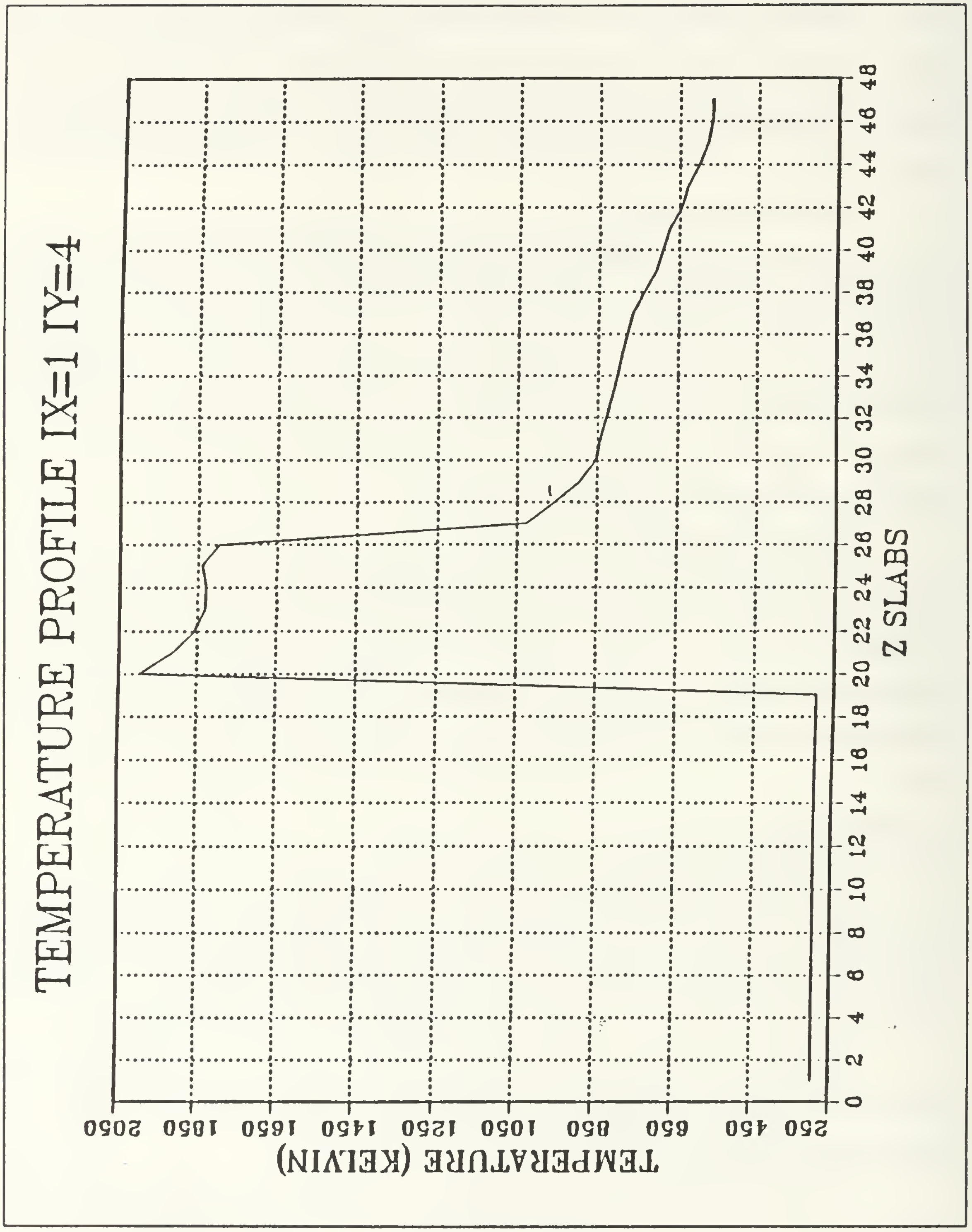


Figure 17. Temperature profile in the Z domain

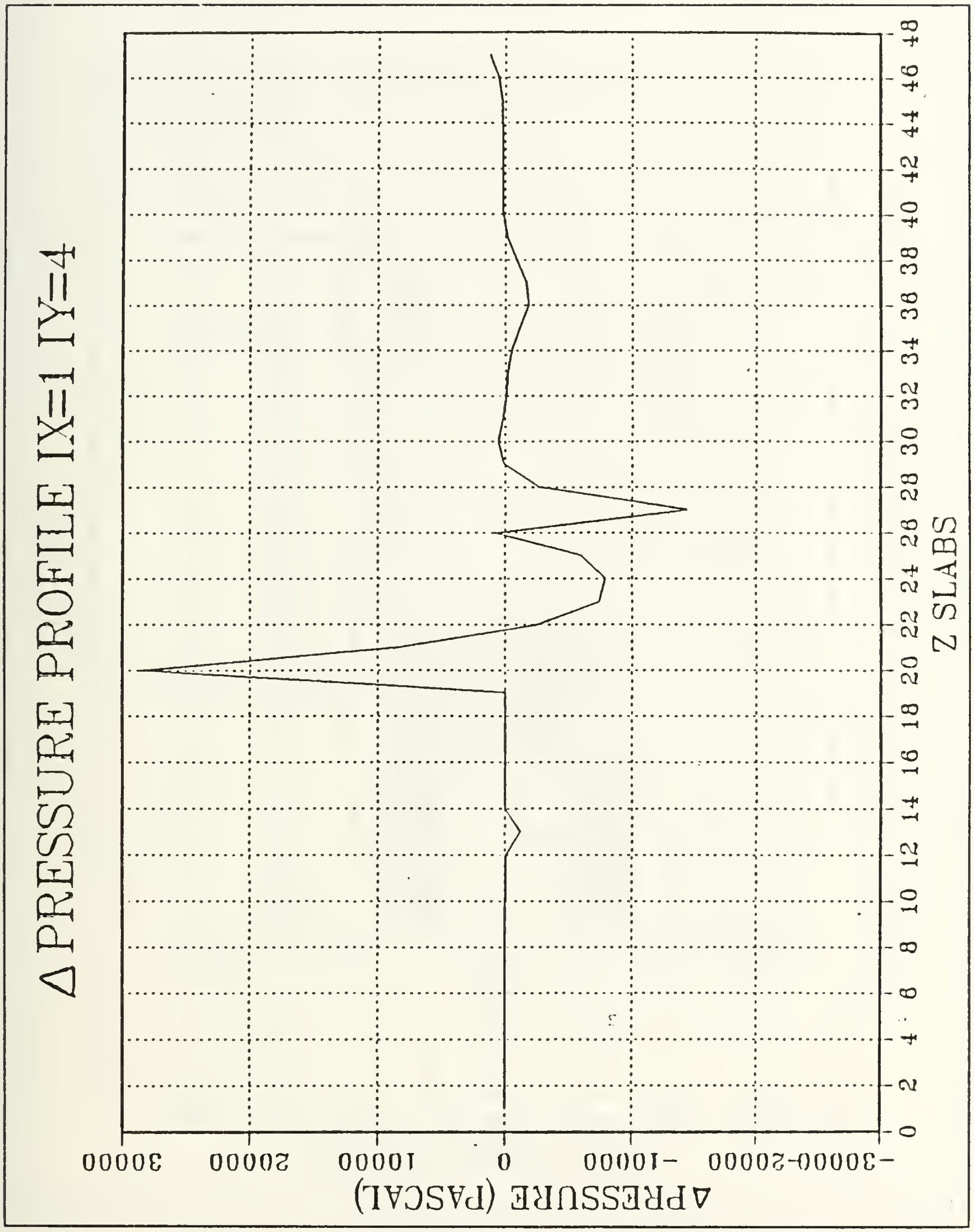


Figure 18. Pressure differential profile in the Z domain

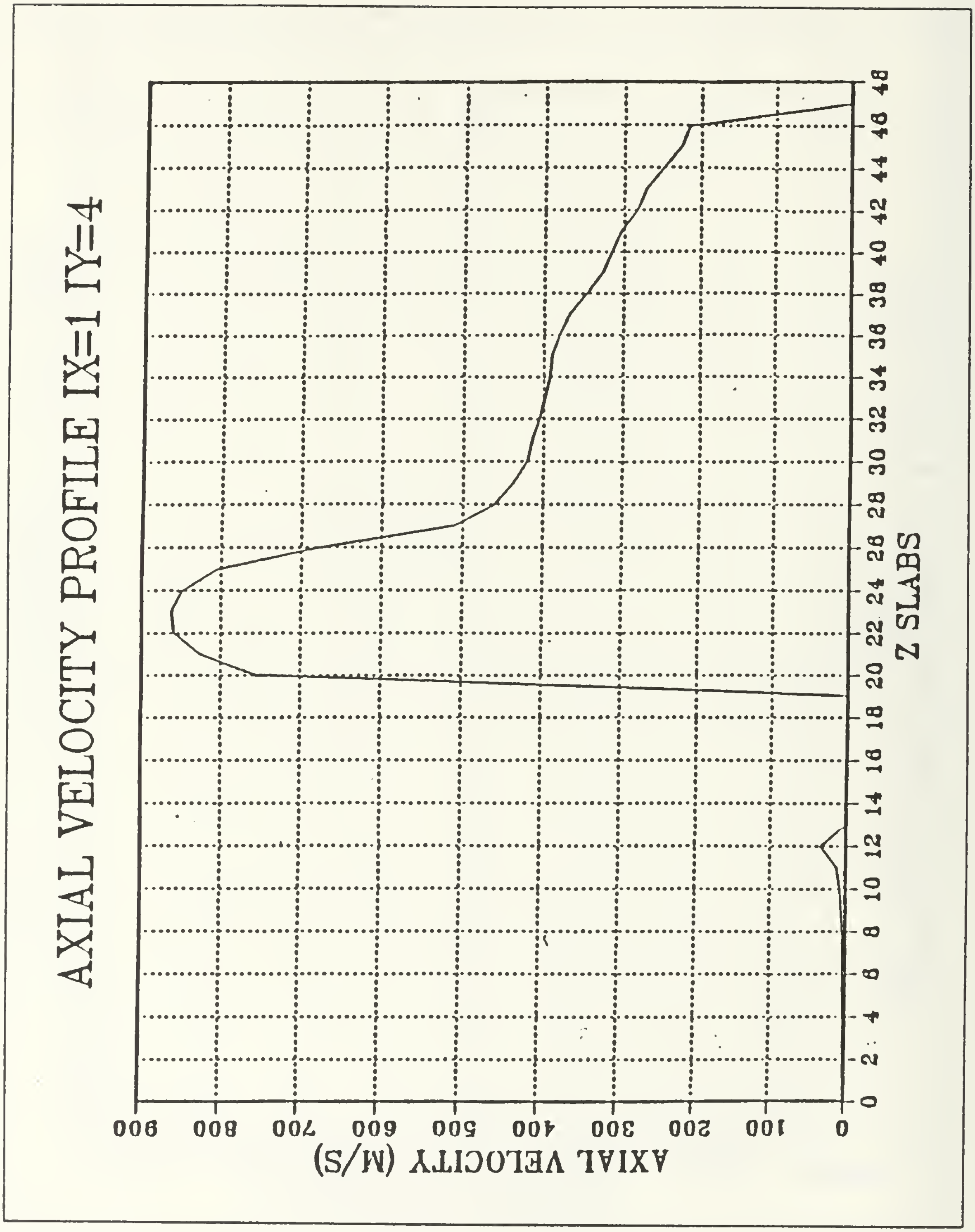


Figure 19. Axial velocity profile in the Z domain

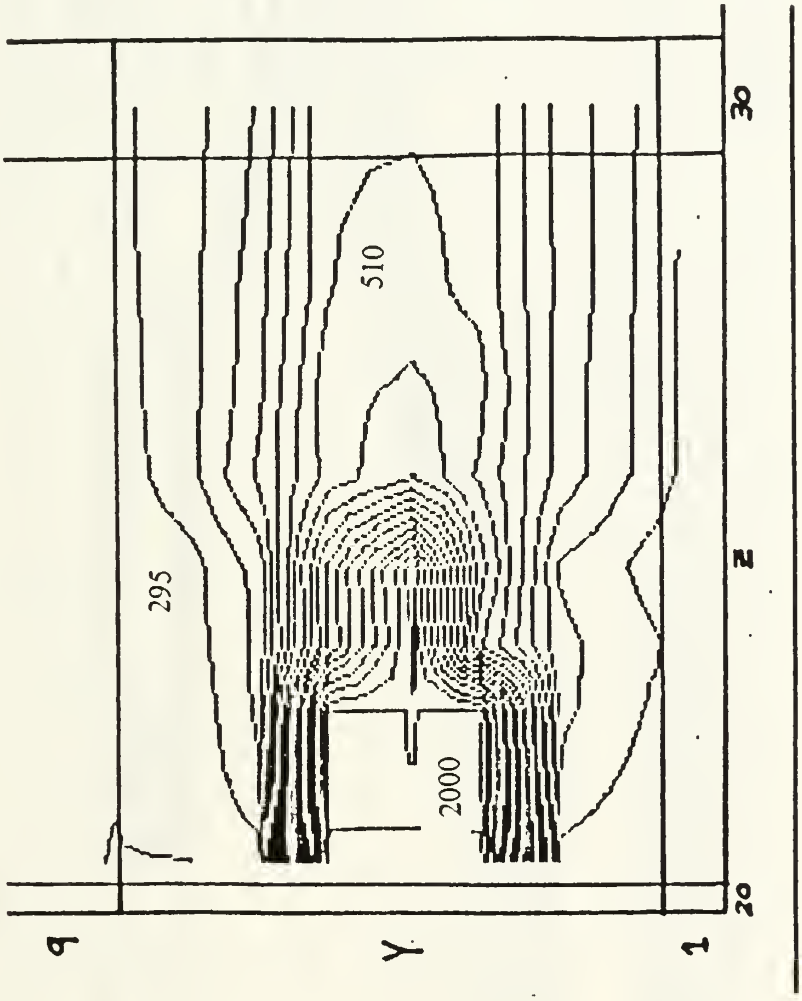


Figure 20. Temperature contours in Y-Z plane (Engine outlet) : (Range 295-2000 K / 20 intervals)

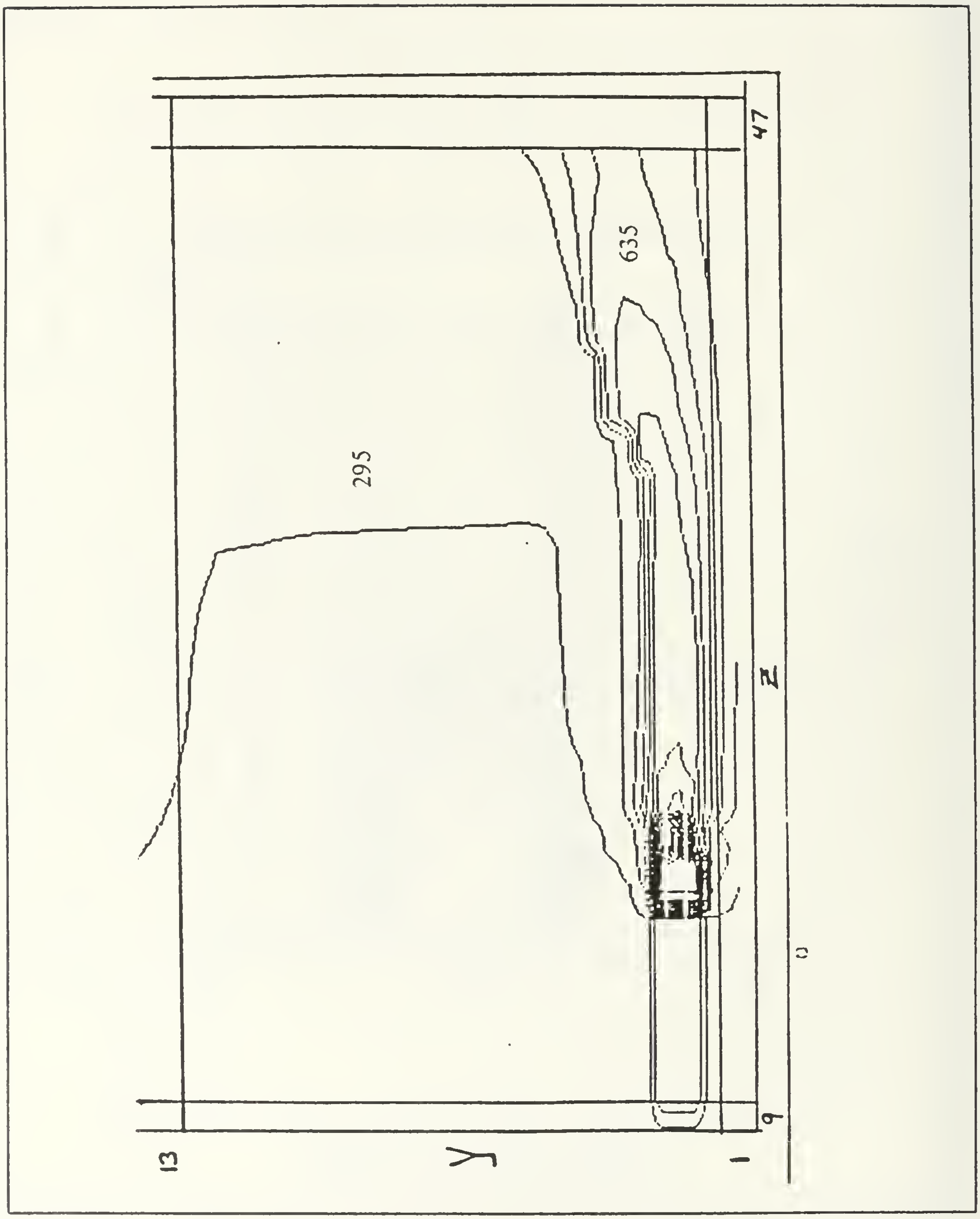


Figure 21. Temperature contours in Y-Z plane (Engine outlet to exhaust stack): (Range 295-2000 K / 20 intervals)

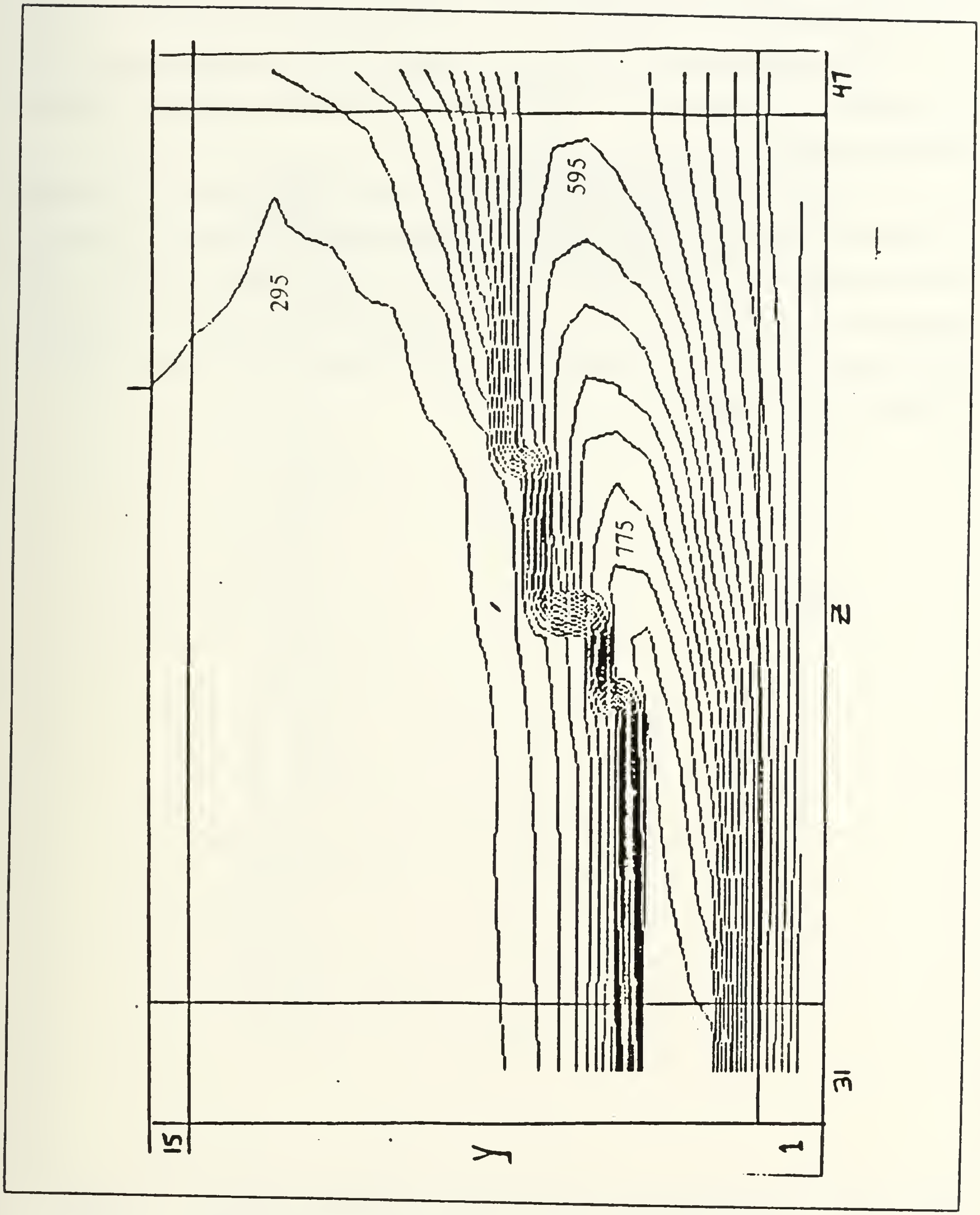


Figure 22. Temperature contours in Y-Z plane (Exhaust region IZ 31-47): (Range 295-895 K / 20 intervals)

2. Pressure differential contours

The pressure differential contours in the inlet bay area and upper primary inlet are represented in Figure 23. Note the increase in the negative pressure differential around the engine inlet (slab 12).

In Figure 24 the pressure differential contour of the engine outlet region (IZ = 20-30) is illustrated. Pressure fluctuations are apparent throughout this region. A pressure differential of 28,000 Pa occurs at the outlet of the engine (slab 20). Two negative pressure differentials of -8000 Pa and -15000 Pa are also formed downstream of the engine. These pressure differential results are analogous to the pressure differential profile found in Figure 18.

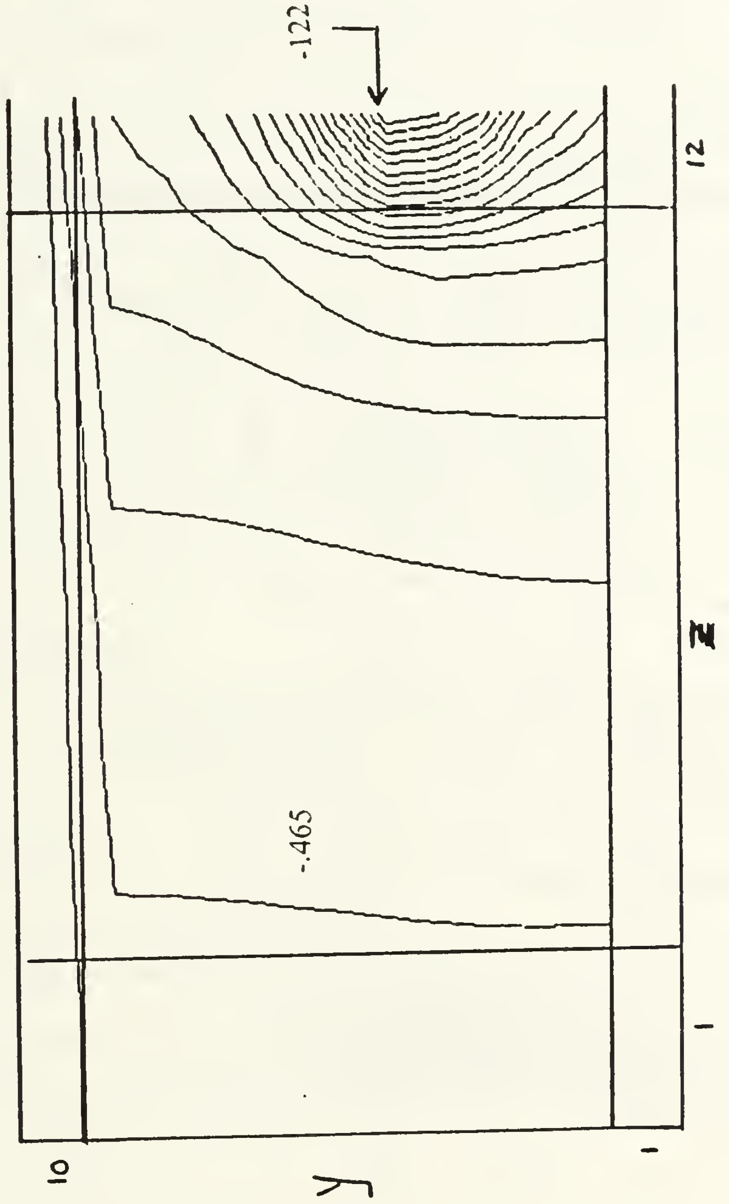


Figure 23. Pressure differential contours in Y-Z plane (Inlet bay): (Range -.465 -122 Pa / 20 intervals)

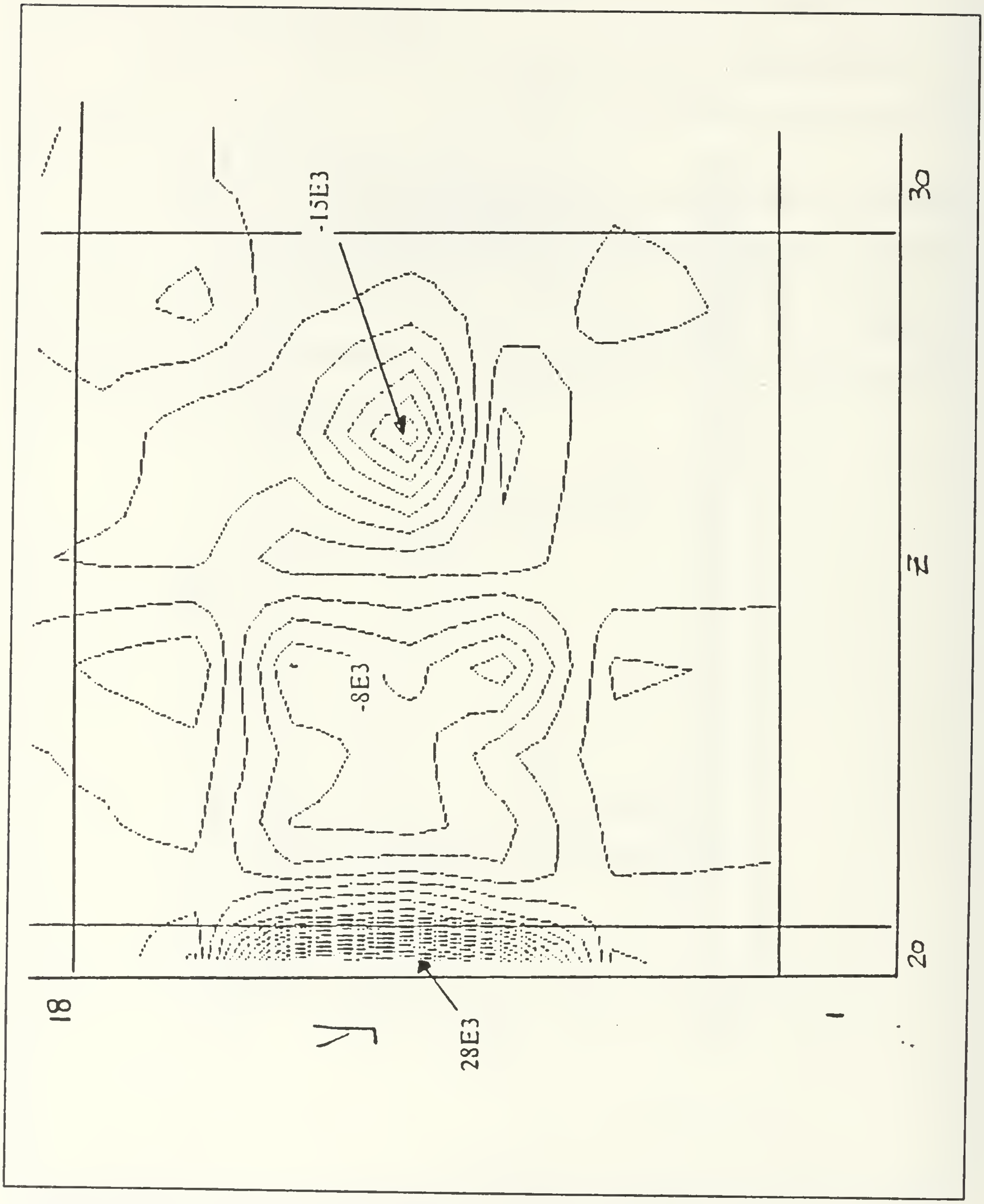


Figure 24. **Pressure differential contours in Y-Z plane:** (Range .289E5 -.152E5 Pa / 20 intervals)(Engine outlet region)

V. SUMMARY & RECOMMENDATIONS

A. SUMMARY

A computer model of the Coanda/Refraction Jet Engine Test Cell facility was developed using the PHOENICS computer code. The PHOENICS code was utilized to determine the steady state aerothermal characteristics of the test cell during the testing of an F404 gas turbine engine with afterburner in operation. Computer generated aerothermodynamic field variables of pressure, velocity and temperature parameters were compared to operational field test data.

The analytical model provided excellent flow direction results. The flow of air and exhaust gases throughout the Coanda test cell matched designed expectations. In addition, a comparison of analytical and experimental data indicated that the analytical model provided lower velocity and temperature values than experimental data.

B. RECOMMENDATIONS

The numerical data provided by PHOENICS was qualitatively in good agreement with the expected flow path of air and exhaust gases through the Coanda test cell facility. However, quantitative results indicate more work is needed. Modeling of the Coanda Refraction test cell as well as other test facilities with PHOENICS should be continued. Some changes in the Coanda/Refraction model will be necessary to improve and verify the accuracy of the analytical model.

Since only four grid configurations were attempted in this project, (two of which proved fruitless) finer grid models should be implemented. The question of whether the analytical model is grid independent could be resolved by using several new grid configurations. Particular attention should be given to the grid configuration at all inlet areas. By refining the grid configuration around the inlet areas (i.e. Primary air, Forward and After Secondary air), a closer correlation of analytical and experimental data should be attained.

The use of the Body Fitted Coordinate (BFC) option will increase the accuracy of the model. BFC would take into consideration the curvature of the Coanda Surface. This would result in a more accurate geometric model and enhance the accuracy of the numerical model.

The present analytical model neglects the effects of the attenuators which are located throughout the Coanda/Refraction test facility. By incorporating these attenuators as well as other obstructions into the model, the analytical model would produce better results.

Other turbulent models must be tried with the present analytical model. After examining the results obtained using various turbulent models, one could select the turbulent model that has the best agreement with experimental data.

To fully implement the power of PHOENICS, "what if" scenarios should be implemented. For example, by changing the length of the ejector tube in the Coanda Refraction test cell, PHOENICS can show how ejector tube lengthening affects system behavior. Other "what if" scenarios could include changing the location of the engine, adding or removing walls, and changing dimensions of various parts of the test cell.

C. CONCLUSION

The PHOENICS code has the ability to successfully model a complex geometric structure such as the Coanda Refraction test cell. PHOENICS has proven to be a very powerful modeling tool. By modeling the Coanda Refraction test cell as well as other test facilities, PHOENICS will provide a greater understanding of the aerothermodynamic characteristics of todays test cell facilities. This greater understanding will be incorporated into the design and modeling of future test cell facilities.

APPENDIX A. Q1 FILE

```
    *****************************************************************

    *****************************************************************
    ***                                                           ***
    ***            LEMOORE TEST CELL #2 (COANDA TYPE)             ***
    ***                                                           ***
    ***                   TURBULENT MODEL                         ***
    ***                                                           ***
    *****************************************************************
    *****************************************************************
   ****************************************************************
   *                   LIST OF VARIABLES                          *
   *                                                              *
   *   WJET: VELOCITY OF ENGINE EXHAUST (METERS/SEC)              *
   *   MJET: MASS FLOW RATE OF GAS (KG/SECOND/SQ METER)           *
   *   TJET: JET EXHAUST GAS TEMPERATURE (DEGREES KELVIN)         *
   *   PJET: EXHAUST PRESSURE OF JET ENGINE (NEWTONS/SQ METER)    *
   *   RHOJET: DENSITY OF THE GAS (KG/CUBIC METER)                *
   *   HJET: ENTHALPY (JOULES/KG OR NEWTON*METERS/KG)             *
   *   KEJET: KINETIC ENERGY (JOULES OR NEWTON-METERS)            *
   *   GASCON: GAS CONSTANT (JOULES/(KG-DEG KELVIN))              *
   *   TAMB: AMBIENT AIR TEMPERATURE (DEGREES KELVIN)             *
   *   HAMB: AMBIENT ENTHALPY (JOULES/KG)                         *
   *   KEINJ: TURBULENT KINETIC ENERGY (JOULES) OF JET            *
   *   CSUBP: SP HT @ CONST PRE (JOULES/(KG-DEG KELVIN))          *
   *   EPINJ: DISSIPATION RATE OF TURBULENT KE (JOULES) OF JET    *
   *   KEINA: TURBULENT KINETIC ENERGY (JOULES) AMBIENT           *
   *   EPINA: DISSIPATION RATE OF TURBULENT KE (JOULES) AMBIENT   *
   *   P1: PRESSURE (NEWTONS/SQUARE METER)                        *
   *   H1: ENTHALPY (JOULES/KG)                                   *
   *   U1: VELOCITY IN X-DIRECTION (METERS/SEC)                   *
   *   V1: VELOCITY IN Y-DIRECTION (METERS/SEC)                   *
   *   W1: VELOCITY IN Z-DIRECTION (METERS/SEC)                   *
   *   TMP1: TEMP OF THE FIRST PHASE (DEGREES KELVIN)             *
   *   RHO1: DENSITY OF THE FIRST PHASE (KG/CUBIC METER)          *
   *   PRESSO: REFERENCE ATMOSPHERIC PRESSURE (NEWTONS/SQ METER)  *
   *   TMP1A: GROUND REF TEMP USED IN GRND2 (DEG KELVIN)          *
   *   TMP1B: 1/CSUBP USED IN GRND2 EQU (KG-DEG KELVIN/JOULES)    *
   *   DRH1DP: DELTA RHO/DELTA PRESSURE W/RESPECT TO H1           *
   *   FACT: CORRECTION OR "FUDGE" FACTOR                         *
   *   ENUL: LAMINAR KINEMATIC VISCOSITY (METERS SQ/SEC)          *
   *   ENUT: TURBULENT KINEMATIC VISCOSITY (METERS SQ/SEC)        *
   ****************************************************************
    *
    GROUP1:  TITLE
    *
TEXT(COANDA RUN  ; FINE GRID)
    *
REAL(WJET,MJET,TJET,PJET,RHOJET,HJET,GASCON,CSUBP,TAMB,WIN,HAMB)
REAL(KEINJ,EPINJ,KEINA,EPINA)
```

```
    GROUP2:  STEADY/TRANSIENT
STEADY =T
    *
    GROUP3:  X DIRECTION GRID
    *
 NX= 9
 XFRAC(1)=-2. ; XFRAC(2)=0.260
 XFRAC(3)= 2. ; XFRAC(4)=0.39
 XFRAC(5)= 3. ; XFRAC(6)=.524
 XFRAC(7)= 1. ; XFRAC(8)=0.55
 xFRAC(9)= 1. ; XFRAC(10)=.524
    *
    GROUP4:  Y DIRECTION GRID
    *
 NY = 23
 YFRAC(1)=-2. ; YFRAC(2)= 0.562
 YFRAC(3)= 1. ; YFRAC(4)= 0.200
 YFRAC(5)= 1. ; YFRAC(6)= 0.421
 YFRAC(7)= 1. ; YFRAC(8)= 0.365
 YFRAC(9)= 1. ; YFRAC(10) = 0.300
YFRAC(11)=3. ; YFRAC(12) = .333
YFRAC(13)=1. ; YFRAC(14) = .360
YFRAC(15)=1. ; YFRAC(16) = 0.500
YFRAC(17)=3. ; YFRAC(18) = .608
YFRAC(19)=1. ; YFRAC(20) = 0.305
YFRAC(21)=3. ; YFRAC(22) = 0.530
YFRAC(23)=1. ; YFRAC(24) = 1.69
YFRAC(25)=1. ; YFRAC(26) = 1.82
YFRAC(27)=1. ; YFRAC(28) = 2.14
YFRAC(29)=1. ; YFRAC(30) = 3.66
YFRAC(31)=1. ; YFRAC(32) = 1.833
    *
    GROUP5:  Z DIRECTION GRID
    *
NZ = 47
ZFRAC(1) = -1. ; ZFRAC(2) = 0.965
ZFRAC(3) =  2. ; ZFRAC(4) = 0.813
ZFRAC(5) =  3. ; ZFRAC(6) = 1.22
ZFRAC(7) =  2. ; ZFRAC(8)= 0.610
ZFRAC(9) =  2. ; ZFRAC(10)= 1.32
ZFRAC(11)=  1. ; ZFRAC(12)= 1.05
ZFRAC(13)=  1. ; ZFRAC(14)= 0.84
ZFRAC(15)=  1. ; ZFRAC(16)= 0.842
ZFRAC(17)=  1. ; ZFRAC(18)= 0.762
ZFRAC(19)=  3. ; ZFRAC(20)= .666
ZFRAC(21)=  2. ; ZFRAC(22)= .537
ZFRAC(23)=  4. ; ZFRAC(24)= .134
ZFRAC(25)=  2. ; ZFRAC(26)= 0.268
ZFRAC(27)=  4. ; ZFRAC(28)= 0.381
ZFRAC(29)=  1. ; ZFRAC(30)= 1.176
ZFRAC(31)=  2. ; ZFRAC(32)= 1.024
ZFRAC(33)=  1. ; ZFRAC(34)= 0.838
ZFRAC(35)=  1. ; ZFRAC(36)= .623
ZFRAC(37)=  1. ; ZFRAC(38)= 0.395
ZFRAC(39)=  2. ; ZFRAC(40)= 0.328
ZFRAC(41)=  2. ; ZFRAC(42)= .553
ZFRAC(43)=  1. ; ZFRAC(44)= 0.317
ZFRAC(45)=  1. ; ZFRAC(46)= 0.353
ZFRAC(47)=  1. ; ZFRAC(48)= 0.613
ZFRAC(49)=  1. ; ZFRAC(50)= .385
ZFRAC(51)=  2. ; ZFRAC(52)= 0.728
ZFRAC(53)=  1. ; ZFRAC(54)= 0.385
ZFRAC(55)=  1. ; ZFRAC(56)= 0.613
    GROUP6:  BODY FITTED COORDINATES
    GROUP7:  VARIABLE SOLUTION, STORAGE & NAME
    *
SOLVE(P1,H1,U1,V1,W1)
SOLUTN(P1,Y,Y,Y,N,N,N)
SOLUTN(H1,Y,Y,Y,N,N,N)
SOLUTN(U1,Y,Y,N,Y,N,N)
SOLUTN(V1,Y,Y,N,Y,N,N)
SOLUTN(W1,Y,Y,N,Y,N,N)
STORE(RHO1,TMP1)
    *
    GROUP8:  TERMS IN EQUATIONS
    GROUP9:  PHYSICAL PROPERTIES OF MEDIUM
    *
TAMB = 295.
TJET = 2000.
PJET = 0.
MJET = 175.
HAMB=TAMB*CSUBP
PRESS0 = 101325.
RHO1A = 0.
GASCON = 286.
RHO1B = 1./GASCON
RHOJET =((PRESS0 + PJET)* RHO1B)/TJET
WJET = MJET/RHOJET
TMP1A = TINY
CSUBP = 1004.
TMP1B = 1./CSUBP
HJET = CSUBP * TJET
TMP1 = GRND2
RHO1 = GRND5
DRH1DP = GRND5
ENUL = 1.E-05
    *
   ****** TURBULENT MODEL INPUT************
TURMOD(KEMODL)
STORE(VIST)
KEINA = 0.5 * (0.005*1.0)**2
EPINA = 0.09 * KEINA **1.5/(0.1)
KEINJ=.5*(.005*WJET)**2
EPINJ=.09*KEINJ**1.5/(.05*.5)
    *
    GROUP10: INTERPHASE PROCESSES
    GROUP11: INITIAL VALUES
    *
FIINIT(H1)=CSUBP*TAMB
FIINIT(P1)=0.0
FIINIT(TMP1)=TAMB
FIINIT(DEN1) = 1.0
FIINIT(KE) = KEINA
FIINIT(EP) = EPINA
    *
PATCH(WINIT,INIVAL,1,3,2,5,20,24,1,1)
INIT(WINIT,W1,0.0,0.95*WJET)
INIT(WINIT,H1,0.0,CSUBP*0.95*TJET)
INIT(WINIT,KE,0.0,KEINJ*0.95)
INIT(WINIT,EP,0.0,EPINJ*0.95)



PATCH(WINIT1,INIVAL,1,3,2,5,25,26,1,1)
INIT(WINIT1,W1,0.0,0.90*WJET)
INIT(WINIT1,H1,0.0,CSUBP*0.90*TJET)
INIT(WINIT1,KE,0.0,KEINJ*0.90)
INIT(WINIT1,EP,0.0,EPINJ*0.90)
    *
PATCH(WINIT2,INIVAL,1,3,2,5,27,28,1,1)
INIT(WINIT2,W1,0.0,0.75*WJET)
INIT(WINIT2,H1,0.0,CSUBP*0.75*TJET)
INIT(WINIT2,KE,0.0,KEINJ*0.75)
INIT(WINIT2,EP,0.0,EPINJ*0.75)

PATCH(WINIT3,INIVAL,1,3,2,5,28,29,1,1)
INIT(WINIT3,W1,0.0,0.7*WJET)
INIT(WINIT3,H1,0.0,CSUBP*0.7*TJET)
INIT(WINIT3,KE,0.0,KEINJ*0.7)
INIT(WINIT3,EP,0.0,EPINJ*0.7)

PATCH(WINIT6,INIVAL,1,3,2,5,30,34,1,1)
INIT(WINIT6,W1,0.0,0.5*WJET)
INIT(WINIT6,H1,0.0,CSUBP*0.5*TJET)
INIT(WINIT6,KE,0.0,KEINJ*0.5)
INIT(WINIT6,EP,0.0,EPINJ*0.5)

PATCH(WINIT4,INIVAL,1,3,2,5,35,42,1,1)
INIT(WINIT4,W1,0.0,0.4*WJET)
INIT(WINIT4,H1,0.0,CSUBP*0.4*TJET)
INIT(WINIT4,KE,0.0,KEINJ*0.4)
INIT(WINIT4,EP,0.0,EPINJ*0.4)

PATCH(WINIT5,INIVAL,1,3,2,5,42,47,1,1)
INIT(WINIT5,W1,0.0,0.2*WJET)
INIT(WINIT5,H1,0.0,CSUBP*0.3*TJET)
INIT(WINIT5,KE,0.0,KEINJ*0.3)
INIT(WINIT5,EP,0.0,EPINJ*0.3)
   *** INSURE THAT RESTART VARIABLES MATCH THOSE CURRENTLY STORED ***
   *** IN THE DF09 FILE...
    *
    GROUP12: ADJUSTMENT TO FLUXES
    GROUP13: BOUNDARY CONDITIONS
    *
    *
    *****************************************************************
    ******         ESTABLISHMENT OF PHYSICAL DIMENSIONS         ******
    *****************************************************************
```

```
                                 ***BACKWALL****
CONPOR(0.0,EAST,-8,-8,1,18,1,11)
CONPOR(0.0,EAST,-8,-8,1,16,12,13)
CONPOR(0.0,EAST,-8,-8,1,14,14,29)
CONPOR(0.0,EAST,-8,-8,1,11,30,33)
CONPOR(0.0,EAST,-8,-8,1,21,34,41)
CONPOR(0.0,EAST,-8,-8,1,22,42,47)
                            *** TEST CELL DECK ***
    *
CONPOR(0.0,SOUTH,1,8,1,-1,1,47)
    *
                          *** TEST CELL FRONT WALL ***
    *
CONPOR(0.0,LOW,1,8,1,18,-1,-1)

    *
                           *** PRIMARY INLET TOP ***
    *
CONPOR(0.0,NORTH,1,8,-18,-18,1,8)
    *
                          *** PRIMARY INLET DIVIDER ***(2ND)
    *
CONPOR(0.0,NORTH,1,8,-14,-14,3,8)
    *
                          *** TEST ROOM OVERHEAD ***(PRIMARY INLET TOP)
    *
CONPOR(0.0,NORTH,1,8,-11,-11,4,25)
    *
                   *** PRIMARY/FORWARD SECONDARY INLET DIVIDER ***
    *
CONPOR(0.0,HIGH,1,8,12,18,-11,-11)
    *
                 *** FORWARD SECONDARY INLET TOP ***

    *
CONPOR(0.0,HIGH,1,8,15,16,-13,-13)
CONPOR(0.0,NORTH,1,8,-15,-15,14,29)
    *
    *
    *
                   *** FORWARD SECONDARY TURNING BULKHEADS ***
    *
CONPOR(0.0,HIGH,1,8,12,15,-29,-29)
CONPOR(0.0,HIGH,1,8,1,2,-25,-25)
CONPOR(0.0,HIGH,4,8,3,5,-25,-25)
CONPOR(0.0,HIGH,1,8,6,11,-25,-25)
CONPOR(0.0,NORTH,1,8,-11,-11,30,33)
    *
                         ***SECONDARY EXHAUST/LEFT WALL****

CONPOR(0.0,HIGH,1,8,10,21,-33,-33)

                         ***SECONDARY EXHAUST/RIGHT WALL****

CONPOR(0.0,HIGH,1,8,16,22,-41,-41)
```

```
                        ****PRIMARY EXHAUST/FAR WALL

CONPOR(0.0,HIGH,1,8,1,22,-47,-47)


                          *** ENGINE ***
    *
CONPOR(0.0,CELL,1,2,3,5,14,19)
    *
PATCH(JETIN,HIGH,1,2,3,5,13,13,1,1)
COVAL(JETIN,P1,FIXFLU,-MJET)
COVAL(JETIN,H1,ONLYMS,SAME)
    *
PATCH(JETOUT,LOW,1,2,3,5,20,20,1,1)
COVAL(JETOUT,P1,FIXFLU,MJET)
COVAL(JETOUT,W1,ONLYMS,WJET)
COVAL(JETOUT,H1,ONLYMS,HJET)
COVAL(JETOUT,KE,ONLYMS,KEINJ)
COVAL(JETOUT,EP,ONLYMS,EPINJ)
    *
    *
    *
    *
    *

             *** APPROXIMATION OF THE COANDA SURFACE ***
    *
CONPOR(0.0,NORTH,1,3,-5,-5,26,26)
CONPOR(0.0,NORTH,1,3,-5,-5,28,28)
CONPOR(0.0,NORTH,1,3,-5,-5,30,35)

CONPOR(0.0,NORTH,1,3,-2,-2,26,26)
CONPOR(0.0,NORTH,1,3,-2,-2,28,28)
CONPOR(0.0,NORTH,1,3,-2,-2,30,31)

CONPOR(0.0,EAST,-3,-3,3,5,26,26)
CONPOR(0.0,EAST,-3,-3,3,5,28,28)
CONPOR(0.0,EAST,-3,-3,3,5,30,35)

CONPOR(0.0,NORTH,1,3,-6,-6,36,37)
CONPOR(0.0,EAST,-3,-3,6,6,36,37)
CONPOR(0.0,HIGH,1,3,6,6,-35,-35)

CONPOR(0.0,NORTH,1,3,-8,-8,38,39)
CONPOR(0.0,EAST,-3,-3,7,8,38,39)
CONPOR(0.0,HIGH,1,3,7,8,-37,-37)

CONPOR(0.0,NORTH,1,3,-10,-10,40,40)
CONPOR(0.0,EAST,-3,-3,9,10,40,40)
CONPOR(0.0,HIGH,1,3,9,10,-40,-40)

CONPOR(0.0,NORTH,1,3,-13,-13,41,41)
CONPOR(0.0,EAST,-3,-3,11,13,41,41)
CONPOR(0.0,HIGH,1,3,11,13,-40,-40)

CONPOR(0.0,HIGH,1,3,13,15,-41,-41)
```

```
    *
              *** BOUNDARIES TO AMBIENT ***
    *
    *
PATCH(SKY,NORTH,1,09,23,23,1,47,1,1)
COVAL(SKY,P1,0.1,0.0)
COVAL(SKY,H1,ONLYMS,CSUBP*TAMB)
    *
    *
PATCH(SKY1,EAST,8,8,1,23,1,47,1,1)
COVAL(SKY1,P1,0.1,0.0)
COVAL(SKY1,H1,ONLYMS,CSUBP*TAMB)
    *
PATCH(SKYLEFT,LOW,1,9,1,23,1,1,1,1)
COVAL(SKYLEFT,P1,0.1,0.0)
COVAL(SKYLEFT,H1,ONLYMS,CSUBP*TAMB)
        COVAL(SKYLEFT,KE,ONLYMS,KEINA)
        COVAL(SKYLEFT,EP,ONLYMS,EPINA)
    *
PATCH(SKYRT,HIGH,1,9,1,23,47,47,1,1)
COVAL(SKYRT,P1,0.1,0.0)
COVAL(SKYRT,H1,ONLYMS,CSUBP*TAMB)
    *
    *
         ******BOUNDARIES TO ENGINE********
    GROUP14: DOWNSTREAM PRESSURE
    GROUP15: TERMINATION FOR INNER ITERATIONS
    *
FSWEEP =1; LSWEEP =70
    GROUP16: TERMINATION FOR SWEEPS & OUTER ITERATIONS
LITER(P1)=20
LITER(V1)=5
LITER(W1)=5
LITER(U1)=5
LITER(H1)=5
LITER(KE)=5
LITER(EP)=5
   *
    *
   GROUP17: UNDER RELAXATION
REAL(DELT,FACT)
DELT=50.0/(NZ*0.2*WJET)
  FACT=10.0
FACT=2.5
   FACT=3.5
    FACT=5.0
   FACT=1.5
RELAX(P1,LINRLX,.3)
RELAX(U1,FALSDT,FACT*DELT)
RELAX(V1,FALSDT,FACT*DELT)
RELAX(W1,FALSDT,FACT*DELT)
RELAX(H1,FALSDT,.25*FACT*DELT)
RELAX(KE,FALSDT,FACT*DELT)
RELAX(EP,FALSDT,FACT*DELT)
    GROUP18: LIMITS ON VARIABLES
    *
    *
VARMIN(P1)= -3.5E+05
VARMAX(P1)= 3.5E+05
VARMIN(V1)=-500.
VARMAX(V1)=1000.
VARMIN(W1)=-200.
VARMAX(W1)=1500.
VARMAX(TMP1)=TJET
VARMIN(TMP1)=295.
VARMAX(H1)= CSUBP*TJET
VARMIN(H1)= 1000.
VARMIN(U1)=-300.
VARMAX(U1)=100.
VARMIN(RHO1)=.05
VARMAX(RHO1)=5.
VARMAX(KE)=7.5E+04
VARMIN(KE)=1.E-08
VARMAX(EP)=2.5E+06
VARMIN(EP)=1.E-08

    GROUP19: SPECIAL CALLS TO GROUND
    GROUP20: PRELIMINARY PRINTOUT
     ECHO=T
    GROUP21: FIELD PRINTOUT
    GROUP22: MONITOR PRINTOUT
    *

IXMON = 2; IYMON = 4 ; IZMON = 12
TSTSWP=1 ; LUPR3=6
ABSIZ=1.0; ORSIZ=1.0
    GROUP23: FIELD PRINTOUT & PLOTS
NUMCLS=10*NXPRIN
    *
ITABL=3 ; NPLT=1 ; NZPRIN=1
IPLTL=LSWEEP
     NPRINT=3
    *
    GROUP24: PREPARATION FOR CONTINUATION RUNS
SAVE=T
RESTRT(ALL)
STOP
//
```

APPENDIX B. COMPUTER OUTPUT

```
TIME STP=      1 SWEEP NO=     70 ZSLAB NO=      4 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ=  4, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -4.201E-01  -4.201E-01  -4.200E-01  -4.198E-01  -4.195E-01  -4.192E-01  -4.190E-01  -4.177E-01  -4.187E-01
IY= 22  -4.264E-01  -4.262E-01  -4.262E-01  -4.263E-01  -4.264E-01  -4.269E-01  -4.273E-01  -4.270E-01  -4.273E-01
IY= 21  -4.433E-01  -4.432E-01  -4.433E-01  -4.433E-01  -4.436E-01  -4.439E-01  -4.441E-01  -4.438E-01  -4.441E-01
IY= 20  -4.492E-01  -4.491E-01  -4.494E-01  -4.499E-01  -4.507E-01  -4.519E-01  -4.531E-01  -4.537E-01  -4.542E-01
IY= 19  -4.430E-01  -4.431E-01  -4.437E-01  -4.450E-01  -4.470E-01  -4.504E-01  -4.547E-01  -4.610E-01  -4.732E-01
IY= 18  -1.274E+00  -1.275E+00  -1.277E+00  -1.281E+00  -1.286E+00  -1.292E+00  -1.297E+00  -1.286E+00  -6.896E-01
IY= 17  -1.276E+00  -1.278E+00  -1.280E+00  -1.283E+00  -1.288E+00  -1.295E+00  -1.299E+00  -1.289E+00  -6.795E-01
IY= 16  -1.278E+00  -1.280E+00  -1.283E+00  -1.287E+00  -1.292E+00  -1.299E+00  -1.303E+00  -1.292E+00  -6.701E-01
IY= 15  -1.280E+00  -1.281E+00  -1.285E+00  -1.288E+00  -1.294E+00  -1.300E+00  -1.305E+00  -1.294E+00  -6.609E-01
IY= 14  -2.488E+00  -2.492E+00  -2.502E+00  -2.515E+00  -2.530E+00  -2.536E+00  -2.531E+00  -2.462E+00  -6.568E-01
IY= 13  -2.607E+00  -2.619E+00  -2.623E+00  -2.627E+00  -2.630E+00  -2.620E+00  -2.600E+00  -2.522E+00  -6.477E-01
IY= 12  -2.798E+00  -2.800E+00  -2.802E+00  -2.801E+00  -2.795E+00  -2.765E+00  -2.718E+00  -2.623E+00  -6.394E-01
IY= 11  -1.081E+01  -1.086E+01  -1.099E+01  -1.121E+01  -1.151E+01  -1.163E+01  -1.139E+01  -9.882E+00  -6.317E-01
IY= 10  -1.075E+01  -1.079E+01  -1.088E+01  -1.104E+01  -1.124E+01  -1.117E+01  -1.071E+01  -9.211E+00  -6.259E-01
IY=  9  -1.047E+01  -1.049E+01  -1.054E+01  -..061E+01  -1.067E+01  -1.046E+01  -9.963E+00  -8.629E+00  -6.224E-01
IY=  8  -9.983E+00  -1.000E+01  -1.003E+01  -1.003E+01  -1.002E+01  -9.768E+00  -9.299E+00  -8.156E+00  -6.196E-01
IY=  7  -9.432E+00  -9.451E+00  -9.462E+00  -9.448E+00  -9.403E+00  -9.157E+00  -8.747E+00  -7.778E+00  -6.170E-01
IY=  6  -8.932E+00  -8.952E+00  -8.957E+00  -8.943E+00  -8.896E+00  -8.674E+00  -8.319E+00  -7.492E+00  -6.147E-01
IY=  5  -8.438E+00  -8.458E+00  -8.463E+00  -8.459E+00  -8.427E+00  -8.244E+00  -7.948E+00  -7.246E+00  -6.131E-01
IY=  4  -7.938E+00  -7.958E+00  -7.965E+00  -7.980E+00  -7.976E+00  -7.841E+00  -7.598E+00  -7.008E+00  -6.114E-01
IY=  3  -7.617E+00  -7.634E+00  -7.647E+00  -7.684E+00  -7.708E+00  -7.607E+00  -7.375E+00  -6.856E+00  -6.091E-01
IY=  2  -7.272E+00  -7.284E+00  -7.304E+00  -7.344E+00  -7.389E+00  -7.330E+00  -7.135E+00  -6.689E+00  -6.092E-01
IY=  1  -6.911E+00  -6.917E+00  -6.940E+00  -6.991E+00  -7.068E+00  -7.055E+00  -6.906E+00  -6.560E+00  -6.075E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -2.939E-04  -5.997E-04  -1.336E-03  -2.723E-03  -5.870E-03  -1.086E-02  -1.736E-02   1.683E-02
IY= 22   7.003E-04   1.373E-03   2.196E-03   2.525E-03   1.391E-03  -3.462E-03  -1.390E-02   1.149E-02
IY= 21   1.741E-04   4.030E-04   6.804E-04   4.188E-04  -1.955E-03  -8.298E-03  -1.808E-02   1.012E-02
IY= 20   2.152E-03   4.337E-03   7.534E-03   1.003E-02   1.121E-02   7.850E-03  -5.957E-03   1.262E-02
IY= 19   8.494E-03   1.693E-02   2.928E-02   4.111E-02   5.584E-02   6.927E-02   7.965E-02   1.185E-01
IY= 18   3.604E-03   2.598E-03  -6.991E-03  -2.400E-02  -4.951E-02  -7.396E-02  -9.390E-02   1.432E-08
IY= 17  -1.181E-02  -2.190E-02  -3.690E-02  -5.288E-02  -7.477E-02  -8.958E-02  -9.833E-02   9.817E-16
IY= 16  -1.734E-02  -3.204E-02  -5.233E-02  -6.910E-02  -8.615E-02  -9.628E-02  -1.007E-01  -5.656E-21
IY= 15  -2.675E-02  -5.130E-02  -7.387E-02  -8.298E-02  -8.723E-02  -9.076E-02  -9.711E-02  -3.306E-21
IY= 14  -5.151E-02  -1.050E-01  -1.796E-01  -2.411E-01  -2.925E-01  -2.969E-01  -2.565E-01   0.000E+00
IY= 13  -3.944E-02  -7.316E-02  -1.239E-01  -1.752E-01  -2.378E-01  -2.670E-01  -2.483E-01   8.078E-26
IY= 12  -1.291E-02  -2.941E-02  -5.787E-02  -9.197E-02  -1.474E-01  -2.014E-01  -2.276E-01   8.078E-26
IY= 11  -1.300E-01  -2.983E-01  -5.633E-01  -8.199E-01  -1.085E+00  -1.205E+00  -1.126E+00   6.462E-26
IY= 10  -9.175E-02  -2.182E-01  -4.835E-01  -7.580E-01  -1.065E+00  -1.207E+00  -1.101E+00   4.524E-26
IY=  9  -1.214E-01  -2.640E-01  -5.220E-01  -7.816E-01  -1.061E+00  -1.168E+00  -1.035E+00   4.201E-26
IY=  8  -1.425E-01  -2.972E-01  -5.476E-01  -7.888E-01  -1.032E+00  -1.100E+00  -9.514E-01   4.201E-26
IY=  7  -1.491E-01  -3.039E-01  -5.452E-01  -7.652E-01  -9.729E-01  -1.011E+00  -8.613E-01   4.201E-26
IY=  6  -1.449E-01  -2.934E-01  -5.187E-01  -7.179E-01  -8.965E-01  -9.155E-01  -7.750E-01   3.877E-26
IY=  5  -1.287E-01  -2.589E-01  -4.566E-01  -6.313E-01  -7.867E-01  -8.021E-01  -6.909E-01   4.847E-26
IY=  4  -9.793E-02  -1.972E-01  -3.532E-01  -5.008E-01  -6.435E-01  -6.733E-01  -6.052E-01   5.493E-26
IY=  3  -8.034E-02  -1.585E-01  -2.840E-01  -4.112E-01  -5.394E-01  -5.640E-01  -5.252E-01   2.585E-26
IY=  2  -2.689E-02  -5.390E-02  -9.916E-02  -1.650E-01  -2.945E-01  -4.205E-01  -4.760E-01   7.432E-26
IY=  1   2.288E-02   4.643E-02   9.141E-02   1.394E-01   1.496E-01  -3.146E-02  -3.838E-01   7.432E-26
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -1.338E-01  -1.330E-01  -1.310E-01  -1.269E-01  -1.197E-01  -1.065E-01  -8.354E-02  -3.685E-02  -9.372E-02
IY= 21  -2.026E-01  -2.015E-01  -1.986E-01  -1.924E-01  -1.818E-01  -1.641E-01  -1.331E-01  -6.299E-02  -1.509E-01
IY= 20  -1.956E-01  -1.945E-01  -1.919E-01  -1.870E-01  -1.788E-01  -1.646E-01  -1.299E-01  -5.882E-02  -1.583E-01
IY= 19  -1.354E-01  -1.347E-01  -1.330E-01  -1.306E-01  -1.273E-01  -1.238E-01  -1.155E-01  -7.186E-02  -1.446E-01
IY= 18  -1.466E-11  -2.863E-11  -6.921E-11  -7.510E-11  -1.032E-10  -1.041E-10  -9.624E-11  -4.672E-11  -4.501E-01
IY= 17   2.766E-02   1.839E-02   7.612E-03  -2.047E-03  -6.278E-03  -8.573E-03  -1.020E-02  -9.397E-03  -4.271E-01
IY= 16   2.528E-02   1.909E-02   7.652E-03  -4.783E-03  -1.172E-02  -1.254E-02  -1.153E-02  -1.220E-02  -4.046E-01
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IY= 15   1.578E-02   1.420E-02   3.928E-03  -5.609E-03  -9.239E-03  -7.513E-03  -3.908E-03  -5.090E-03  -3.820E-01
IY= 14  -2.413E-12  -2.671E-12  -1.467E-11  -2.884E-11  -3.540E-11  -1.881E-11  -9.194E-12  -1.140E-11  -3.689E-01
IY= 13  -1.691E-01  -1.743E-01  -1.679E-01  -1.532E-01  -1.265E-01  -9.012E-02  -6.409E-02  -6.441E-02  -3.415E-01
IY= 12  -2.321E-01  -2.245E-01  -2.195E-01  -2.097E-01  -1.874E-01  -1.440E-01  -1.059E-01  -1.067E-01  -3.123E-01
IY= 11  -1.347E-08  -1.362E-08  -2.098E-08  -2.206E-08  -3.350E-08  -1.507E-07  -3.313E-07  -3.682E-07  -2.809E-01
IY= 10  -4.669E-02  -6.300E-02  -7.136E-02  -8.759E-02  -8.496E-02  -7.664E-02  -3.809E-02   4.107E-02  -2.534E-01
IY=  9  -8.987E-02  -1.271E-01  -1.825E-01  -2.200E-01  -2.205E-01  -1.795E-01  -6.985E-02   7.837E-02  -2.326E-01
IY=  8  -2.023E-01  -2.438E-01  -3.097E-01  -3.487E-01  -3.346E-01  -2.456E-01  -6.876E-02   1.250E-01  -2.124E-01
IY=  7  -3.368E-01  -3.737E-01  -4.285E-01  -4.561E-01  -4.169E-01  -2.753E-01  -3.798E-02   1.728E-01  -1.913E-01
IY=  6  -4.608E-01  -4.881E-01  -5.273E-01  -5.365E-01  -4.661E-01  -2.719E-01   1.367E-02   2.128E-01  -1.694E-01
IY=  5  -5.505E-01  -5.697E-01  -5.951E-01  -5.847E-01  -4.846E-01  -2.462E-01   7.124E-02   2.366E-01  -1.490E-01
IY=  4  -6.121E-01  -6.241E-01  -6.377E-01  -6.082E-01  -4.784E-01  -1.971E-01   1.425E-01   2.492E-01  -1.235E-01
IY=  3  -6.052E-01  -6.131E-01  -6.238E-01  -5.891E-01  -4.434E-01  -1.305E-01   2.190E-01   2.407E-01  -9.349E-02
IY=  2  -5.829E-01  -5.868E-01  -5.978E-01  -5.656E-01  -4.158E-01  -8.840E-02   2.527E-01   2.204E-01  -7.896E-02
IY=  1  -3.616E-01  -3.635E-01  -3.775E-01  -3.785E-01  -3.063E-01  -4.861E-02   2.786E-01   1.452E-01  -3.888E-02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -7.394E-02  -7.117E-02  -6.361E-02  -4.834E-02  -2.547E-02   1.369E-03   1.998E-02   1.834E-02   1.356E-09
IY= 22  -2.679E-03  -1.233E-03   3.157E-03   1.229E-02   2.594E-02   4.104E-02   4.883E-02   3.686E-02   5.374E-02
IY= 21   6.423E-02   6.514E-02   6.806E-02   7.414E-02   8.293E-02   9.139E-02   9.119E-02   6.407E-02   9.889E-02
IY= 20   1.159E-01   1.164E-01   1.186E-01   1.233E-01   1.304E-01   1.378E-01   1.368E-01   9.003E-02   1.403E-01
IY= 19   1.324E-01   1.328E-01   1.351E-01   1.392E-01   1.460E-01   1.542E-01   1.612E-01   1.299E-01   1.530E-01
IY= 18  -2.933E-01  -2.881E-01  -2.789E-01  -2.642E-01  -2.424E-01  -2.051E-01  -1.553E-01  -8.838E-02   1.810E-01
IY= 17  -3.485E-01  -3.470E-01  -3.453E-01  -3.419E-01  -3.299E-01  -2.883E-01  -2.133E-01  -1.114E-01   2.055E-01
IY= 16  -4.007E-01  -4.035E-01  -4.086E-01  -4.147E-01  -4.128E-01  -3.782E-01  -2.872E-01  -1.435E-01   2.268E-01
IY= 15  -4.438E-01  -4.593E-01  -4.706E-01  -4.834E-01  -4.862E-01  -4.569E-01  -3.523E-01  -1.636E-01   2.379E-01
IY= 14  -1.498E+00  -1.494E+00  -1.485E+00  -1.451E+00  -1.383E+00  -1.233E+00  -9.789E-01  -5.668E-01   2.568E-01
IY= 13  -1.673E+00  -1.671E+00  -1.665E+00  -1.647E+00  -1.600E+00  -1.464E+00  -1.176E+00  -6.551E-01   2.717E-01
IY= 12  -1.843E+00  -1.844E+00  -1.843E+00  -1.834E+00  -1.809E+00  -1.711E+00  -1.409E+00  -7.308E-01   2.821E-01
IY= 11  -1.261E-01   3.405E-02   1.089E-01   1.679E-01   2.233E-01   3.121E-01   3.952E-01   3.477E-01   2.870E-01
IY= 10   4.640E-01   5.895E-01   7.760E-01   9.493E-01   1.095E+00   1.211E+00   1.179E+00   8.153E-01   2.881E-01
IY=  9   9.383E-01   1.058E+00   1.277E+00   1.505E+00   1.678E+00   1.766E+00   1.605E+00   1.038E+00   2.870E-01
IY=  8   1.405E+00   1.516E+00   1.725E+00   1.944E+00   2.083E+00   2.098E+00   1.831E+00   1.131E+00   2.836E-01
IY=  7   1.807E+00   1.903E+00   2.085E+00   2.259E+00   2.355E+00   2.303E+00   1.946E+00   1.157E+00   2.777E-01
IY=  6   2.111E+00   2.192E+00   2.335E+00   2.475E+00   2.535E+00   2.429E+00   2.003E+00   1.151E+00   2.701E-01
IY=  5   2.400E+00   2.455E+00   2.561E+00   2.661E+00   2.680E+00   2.514E+00   2.027E+00   1.134E+00   2.584E-01
IY=  4   2.646E+00   2.680E+00   2.749E+00   2.812E+00   2.793E+00   2.577E+00   2.041E+00   1.117E+00   2.418E-01
IY=  3   2.764E+00   2.790E+00   2.842E+00   2.891E+00   2.862E+00   2.636E+00   2.066E+00   1.106E+00   2.309E-01
IY=  2   2.938E+00   2.950E+00   2.970E+00   2.991E+00   2.943E+00   2.673E+00   2.069E+00   1.103E+00   2.049E-01
IY=  1   3.031E+00   3.034E+00   3.039E+00   3.044E+00   3.028E+00   2.860E+00   2.137E+00   1.102E+00   1.754E-01
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   2.971E-02   2.907E-02   2.747E-02   2.419E-02   1.897E-02   1.195E-02   5.403E-03   1.068E-03   5.170E-04
IY= 22   1.935E-02   1.887E-02   1.774E-02   1.544E-02   1.171E-02   6.742E-03   2.077E-03   7.041E-05   1.384E-03
IY= 21   9.714E-03   9.366E-03   8.552E-03   7.068E-03   5.048E-03   2.608E-03   6.143E-04   5.823E-05   2.048E-03
IY= 20   4.448E-03   4.279E-03   3.877E-03   3.167E-03   2.157E-03   9.780E-04   2.150E-04   3.794E-05   2.178E-03
IY= 19   1.521E-04   1.535E-04   1.611E-04   1.751E-04   1.981E-04   2.282E-04   2.564E-04   2.209E-04   2.169E-03
IY= 18   8.035E-04   7.784E-04   7.347E-04   6.692E-04   5.841E-04   4.592E-04   3.259E-04   1.077E-04   1.903E-03
IY= 17   2.160E-02   1.989E-02   1.805E-02   1.565E-02   1.192E-02   5.953E-03   1.777E-03   1.445E-04   1.827E-03
IY= 16   1.918E-02   1.837E-02   1.783E-02   1.668E-02   1.396E-02   8.993E-03   3.686E-03   2.248E-04   1.758E-03
IY= 15   1.903E-03   2.029E-03   2.138E-03   2.260E-03   2.292E-03   2.064E-03   1.337E-03   3.160E-04   1.693E-03
IY= 14   1.473E-02   1.468E-02   1.459E-02   1.415E-02   1.315E-02   1.087E-02   7.294E-03   2.628E-03   1.651E-03
IY= 13   1.103E-01   1.114E-01   1.107E-01   1.087E-01   1.032E-01   8.511E-02   5.166E-02   3.415E-03   1.563E-03
IY= 12   2.144E-02   2.146E-02   2.143E-02   2.127E-02   2.079E-02   1.891E-02   1.343E-02   4.109E-03   1.461E-03
IY= 11   3.458E-04   4.757E-04   1.709E-03   3.979E-03   7.060E-03   1.001E-02   1.069E-02   2.288E-03   1.353E-03
IY= 10   1.305E-01   1.020E-01   9.115E-02   7.726E-02   6.171E-02   3.963E-02   1.970E-02   5.012E-03   1.260E-03
IY=  9   1.538E-01   1.264E-01   1.124E-01   9.470E-02   7.244E-02   4.335E-02   2.178E-02   7.782E-03   1.179E-03
IY=  8   1.611E-01   1.376E-01   1.219E-01   1.026E-01   7.641E-02   4.392E-02   2.300E-02   9.147E-03   1.093E-03
IY=  7   1.622E-01   1.440E-01   1.288E-01   1.073E-01   7.763E-02   4.318E-02   2.363E-02   9.621E-03   9.999E-04
IY=  6   1.619E-01   1.477E-01   1.330E-01   1.093E-01   7.687E-02   4.169E-02   2.372E-02   9.615E-03   9.072E-04
IY=  5   1.586E-01   1.483E-01   1.348E-01   1.086E-01   7.359E-02   3.863E-02   2.259E-02   9.424E-03   7.996E-04
IY=  4   1.515E-01   1.447E-01   1.329E-01   1.046E-01   6.740E-02   3.346E-02   2.003E-02   9.194E-03   6.723E-04
IY=  3   1.480E-01   1.425E-01   1.317E-01   1.026E-01   6.386E-02   3.026E-02   1.839E-02   8.994E-03   5.909E-04
IY=  2   1.387E-01   1.356E-01   1.277E-01   1.018E-01   5.682E-02   2.238E-02   1.783E-02   8.828E-03   4.566E-04
IY=  1   5.378E-02   5.388E-02   5.406E-02   5.427E-02   5.380E-02   4.840E-02   2.869E-02   8.762E-03   3.370E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.330E-03   1.292E-03   1.198E-03   1.011E-03   7.313E-04   3.931E-04   1.358E-04   1.474E-05   1.369E-05
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IV= 22   6.844E-04   6.620E-04   6.103E-04   5.084E-04   3.503E-04   1.673E-04   4.168E-05   8.364E-07   4.658E-05
IV= 21   2.946E-04   2.834E-04   2.579E-04   2.094E-04   1.383E-04   6.013E-05   1.157E-05   8.793E-07   8.037E-05
IV= 20   1.286E-04   1.233E-04   1.110E-04   8.847E-05   5.584E-05   2.152E-05   4.129E-06   6.456E-07   9.274E-05
IV= 19   8.386E-07   8.500E-07   9.140E-07   1.035E-06   1.246E-06   1.541E-06   1.835E-06   1.467E-06   1.820E-04
IV= 18   3.246E-05   3.095E-05   2.838E-05   2.468E-05   2.012E-05   1.403E-05   8.384E-06   1.563E-06   1.197E-04
IV= 17   1.408E-03   1.232E-03   1.077E-03   9.048E-04   6.546E-04   3.211E-04   8.979E-05   2.386E-06   1.126E-04
IV= 16   1.247E-03   1.160E-03   1.117E-03   1.036E-03   8.456E-04   5.508E-04   2.234E-04   4.628E-06   1.063E-04
IV= 15   2.055E-04   2.263E-04   2.449E-04   2.660E-04   2.717E-04   2.322E-04   1.211E-04   1.081E-05   1.004E-04
IV= 14   2.221E-03   2.209E-03   2.189E-03   2.092E-03   1.874E-03   1.408E-03   7.740E-04   1.762E-04   9.670E-05
IV= 13   1.458E-02   1.484E-02   1.470E-02   1.442E-02   1.384E-02   1.202E-02   8.010E-03   2.741E-04   8.907E-05
IV= 12   3.901E-03   3.906E-03   3.898E-03   3.855E-03   3.725E-03   3.230E-03   1.934E-03   3.444E-04   8.050E-05
IV= 11   9.716E-06   1.567E-05   1.067E-04   3.792E-04   8.963E-04   1.513E-03   1.670E-03   1.578E-04   7.172E-05
IV= 10   3.763E-02   2.706E-02   2.663E-02   2.331E-02   1.896E-02   1.229E-02   5.613E-03   4.873E-04   6.451E-05
IV=  9   4.289E-02   3.289E-02   3.136E-02   2.760E-02   2.170E-02   1.300E-02   5.813E-03   9.428E-04   5.837E-05
IV=  8   4.371E-02   3.534E-02   3.311E-02   2.927E-02   2.242E-02   1.275E-02   5.874E-03   1.201E-03   5.210E-05
IV=  7   4.277E-02   3.662E-02   3.449E-02   3.021E-02   2.239E-02   1.218E-02   5.862E-03   1.296E-03   4.558E-05
IV=  6   4.192E-02   3.740E-02   3.534E-02   3.048E-02   2.185E-02   1.149E-02   5.794E-03   1.295E-03   3.939E-05
IV=  5   4.042E-02   3.742E-02   3.552E-02   2.995E-02   2.060E-02   1.040E-02   5.435E-03   1.257E-03   3.260E-05
IV=  4   3.830E-02   3.656E-02   3.481E-02   2.860E-02   1.861E-02   8.782E-03   4.699E-03   1.211E-03   2.513E-05
IV=  3   3.750E-02   3.620E-02   3.452E-02   2.800E-02   1.751E-02   7.840E-03   4.253E-03   1.171E-03   2.070E-05
IV=  2   3.686E-02   3.615E-02   3.478E-02   2.829E-02   1.561E-02   5.572E-03   3.976E-03   1.139E-03   1.406E-05
IV=  1   1.676E-02   1.681E-02   1.689E-02   1.700E-02   1.677E-02   1.431E-02   6.531E-03   1.115E-03   8.918E-06
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IV= 23   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 22   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 21   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 20   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 19   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 18   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 17   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 16   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 14   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 13   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 12   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 11   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV= 10   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  9   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  8   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  7   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  6   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  5   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  4   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  3   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  2   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IV=  1   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IV= 23   5.972E-02   5.886E-02   5.670E-02   5.209E-02   4.430E-02   3.267E-02   1.935E-02   6.959E-03   1.758E-03
IV= 22   4.924E-02   4.842E-02   4.639E-02   4.218E-02   3.520E-02   2.445E-02   9.317E-03   5.335E-04   3.702E-03
IV= 21   2.883E-02   2.786E-02   2.553E-02   2.147E-02   1.658E-02   1.018E-02   2.935E-03   3.470E-04   4.697E-03
IV= 20   1.385E-02   1.336E-02   1.220E-02   1.021E-02   7.498E-03   4.000E-03   1.008E-03   2.007E-04   4.605E-03
IV= 19   2.483E-03   2.495E-03   2.556E-03   2.664E-03   2.834E-03   3.042E-03   3.224E-03   2.993E-03   2.326E-03
IV= 18   1.790E-03   1.762E-03   1.712E-03   1.634E-03   1.526E-03   1.353E-03   1.140E-03   6.674E-04   2.724E-03
IV= 17   2.984E-02   2.890E-02   2.723E-02   2.436E-02   1.953E-02   9.933E-03   3.167E-03   7.878E-04   2.669E-03
IV= 16   2.656E-02   2.618E-02   2.561E-02   2.416E-02   2.074E-02   1.321E-02   5.474E-03   9.824E-04   2.618E-03
IV= 15   1.585E-03   1.637E-03   1.680E-03   1.727E-03   1.740E-03   1.651E-03   1.329E-03   8.311E-04   2.569E-03
IV= 14   8.791E-03   8.776E-03   8.750E-03   8.618E-03   8.308E-03   7.553E-03   6.187E-03   3.528E-03   2.537E-03
IV= 13   7.509E-02   7.531E-02   7.507E-02   7.368E-02   6.934E-02   5.424E-02   2.999E-02   3.829E-03   2.468E-03
IV= 12   1.061E-02   1.061E-02   1.061E-02   1.057E-02   1.045E-02   9.961E-03   8.396E-03   4.411E-03   2.386E-03
IV= 11   1.108E-03   1.299E-03   2.463E-03   3.758E-03   5.006E-03   5.960E-03   6.159E-03   2.985E-03   2.296E-03
IV= 10   4.070E-02   3.458E-02   2.808E-02   2.305E-02   1.808E-02   1.150E-02   6.220E-03   4.639E-03   2.216E-03
IV=  9   4.962E-02   4.373E-02   3.625E-02   2.924E-02   2.177E-02   1.301E-02   7.346E-03   5.781E-03   2.144E-03
IV=  8   5.343E-02   4.823E-02   4.039E-02   3.238E-02   2.344E-02   1.361E-02   8.102E-03   6.267E-03   2.064E-03
IV=  7   5.536E-02   5.094E-02   4.326E-02   3.433E-02   2.423E-02   1.378E-02   8.575E-03   6.428E-03   1.974E-03
IV=  6   5.626E-02   5.250E-02   4.506E-02   3.531E-02   2.434E-02   1.362E-02   8.740E-03   6.426E-03   1.880E-03
IV=  5   5.601E-02   5.289E-02   4.608E-02   3.542E-02   2.366E-02   1.292E-02   8.448E-03   6.362E-03   1.765E-03
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1Y=  4   5.392E-02   5.153E-02   4.570E-02   3.442E-02   2.197E-02   1.148E-02   7.680E-03   6.284E-03   1.619E-03
1Y=  3   5.254E-02   5.048E-02   4.524E-02   3.384E-02   2.096E-02   1.052E-02   7.160E-03   6.215E-03   1.518E-03
1Y=  2   4.701E-02   4.575E-02   4.220E-02   3.296E-02   1.862E-02   8.090E-03   7.200E-03   6.157E-03   1.334E-03
1Y=  1   1.553E-02   1.554E-02   1.557E-02   1.560E-02   1.553E-02   1.473E-02   1.134E-02   6.200E-03   1.146E-03
 1X=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
1Y= 23   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 22   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 21   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 20   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 19   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 18   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 17   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 16   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 14   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 13   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 12   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  7   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  6   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  5   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  4   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  3   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  2   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y=  1   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
 1X=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
1Y= 23   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 22   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 21   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 20   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 19   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 18   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 17   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 16   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 15   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 14   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 13   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 12   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 11   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 10   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  9   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  8   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  7   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  6   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  5   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  4   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  3   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  2   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y=  1   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
 1X=        1           2           3           4           5           6           7           8           9

************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    10 ITERN NO=      1


FLOW FIELD AT 1THYD=  1, 1Z= 10, 1SWEEP=  70, 1STEP=    1
FIELD VALUES OF P1
1Y= 23  -5.101E-01  -5.064E-01  -5.064E-01  -5.065E-01  -5.069E-01  -5.079E-01  -5.089E-01  -4.970E-01  -5.056E-01
1Y= 22  -5.042E-01  -4.977E-01  -4.985E-01  -5.003E-01  -5.030E-01  -5.060E-01  -5.085E-01  -4.967E-01  -5.044E-01
1Y= 21  -5.773E-01  -5.734E-01  -5.738E-01  -5.744E-01  -5.753E-01  -5.761E-01  -5.765E-01  -5.614E-01  -5.711E-01
1Y= 20  -6.564E-01  -6.541E-01  -6.544E-01  -6.549E-01  -6.555E-01  -6.559E-01  -6.559E-01  -6.399E-01  -6.511E-01
1Y= 19  -7.608E-01  -7.585E-01  -7.587E-01  -7.587E-01  -7.582E-01  -7.571E-01  -7.562E-01  -7.466E-01  -7.645E-01
1Y= 18  -8.315E-01  -8.296E-01  -8.276E-01  -8.232E-01  -8.158E-01  -8.036E-01  -7.867E-01  -7.539E-01  -9.339E-01
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IY= 17  -8.338E-01  -8.334E-01  -8.314E-01  -8.273E-01  -8.209E-01  -8.110E-01  -7.986E-01  -7.797E-01  -9.321E-01
IY= 16  -8.164E-01  -8.175E-01  -8.159E-01  -8.131E-01  -8.090E-01  -8.028E-01  -7.946E-01  -7.801E-01  -9.162E-01
IY= 15  -7.851E-01  -7.870E-01  -7.860E-01  -7.846E-01  -7.827E-01  -7.791E-01  -7.711E-01  -7.568E-01  -8.950E-01
IY= 14  -7.509E-01  -7.533E-01  -7.533E-01  -7.540E-01  -7.558E-01  -7.587E-01  -7.577E-01  -7.453E-01  -8.884E-01
IY= 13  -6.708E-01  -6.715E-01  -6.734E-01  -6.773E-01  -6.842E-01  -6.958E-01  -7.074E-01  -7.017E-01  -8.692E-01
IY= 12  -5.713E-01  -5.727E-01  -5.767E-01  -5.854E-01  -6.004E-01  -6.259E-01  -6.565E-01  -6.711E-01  -8.522E-01
IY= 11  -2.074E+01  -2.079E+01  -2.090E+01  -2.095E+01  -2.098E+01  -2.087E+01  -2.073E+01  -1.795E+01  -8.367E-01
IY= 10  -2.088E+01  -2.095E+01  -2.109E+01  -2.113E+01  -2.113E+01  -2.099E+01  -2.083E+01  -1.801E+01  -8.253E-01
IY=  9  -2.112E+01  -2.120E+01  -2.134E+01  -2.136E+01  -2.133E+01  -2.114E+01  -2.095E+01  -1.809E+01  -8.182E-01
IY=  8  -2.146E+01  -2.153E+01  -2.167E+01  -2.166E+01  -2.157E+01  -2.133E+01  -2.110E+01  -1.818E+01  -8.122E-01
IY=  7  -2.187E+01  -2.194E+01  -2.206E+01  -2.200E+01  -2.184E+01  -2.153E+01  -2.126E+01  -1.829E+01  -8.066E-01
IY=  6  -2.230E+01  -2.237E+01  -2.246E+01  -2.234E+01  -2.210E+01  -2.172E+01  -2.141E+01  -1.839E+01  -8.015E-01
IY=  5  -2.275E+01  -2.281E+01  -2.288E+01  -2.268E+01  -2.236E+01  -2.191E+01  -2.156E+01  -1.849E+01  -7.972E-01
IY=  4  -2.324E+01  -2.328E+01  -2.329E+01  -2.302E+01  -2.262E+01  -2.210E+01  -2.171E+01  -1.859E+01  -7.926E-01
IY=  3  -2.355E+01  -2.357E+01  -2.353E+01  -2.320E+01  -2.274E+01  -2.219E+01  -2.179E+01  -1.865E+01  -7.885E-01
IY=  2  -2.366E+01  -2.383E+01  -2.373E+01  -2.336E+01  -2.286E+01  -2.228E+01  -2.187E+01  -1.871E+01  -7.865E-01
IY=  1  -2.405E+01  -2.399E+01  -2.382E+01  -2.338E+01  -2.287E+01  -2.231E+01  -2.191E+01  -1.874E+01  -7.832E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23   4.205E-03   8.008E-03   1.232E-02   1.409E-02   1.186E-02   4.496E-03  -7.223E-03   1.878E-02
IY= 22   7.685E-03   1.483E-02   2.369E-02   2.894E-02   2.881E-02   2.030E-02   4.601E-03   2.439E-02
IY= 21   4.663E-03   8.916E-03   1.384E-02   1.600E-02   1.351E-02   4.650E-03  -9.409E-03   1.981E-02
IY= 20   2.900E-03   5.490E-03   8.203E-03   8.692E-03   5.066E-03  -3.690E-03  -1.689E-02   2.034E-02
IY= 19   3.493E-03   6.605E-03   1.008E-02   1.129E-02   8.725E-03   1.805E-03  -7.402E-03   4.105E-02
IY= 18   1.664E-03   2.839E-03   3.234E-03   1.094E-03  -7.169E-03  -2.283E-02  -4.686E-02  -5.767E-09
IY= 17  -7.298E-04  -1.752E-03  -4.513E-03  -9.668E-03  -2.168E-02  -4.020E-02  -6.163E-02  -5.059E-15
IY= 16  -2.813E-03  -5.689E-03  -1.083E-02  -1.792E-02  -3.178E-02  -5.086E-02  -6.975E-02   1.964E-20
IY= 15  -3.651E-03  -7.234E-03  -1.323E-02  -2.104E-02  -3.597E-02  -5.663E-02  -7.424E-02   2.984E-21
IY= 14  -3.689E-03  -7.148E-03  -1.260E-02  -1.956E-02  -3.349E-02  -5.524E-02  -7.638E-02   6.405E-21
IY= 13   3.818E-04   4.735E-04   3.774E-04  -8.086E-04  -6.656E-03  -2.317E-02  -5.549E-02   1.523E-12
IY= 12   1.490E-02   2.920E-02   4.928E-02   6.770E-02   9.064E-02   1.094E-01   9.882E-02   3.699E-10
IY= 11  -2.486E-01  -4.710E-01  -7.669E-01  -1.001E+00  -1.236E+00  -1.385E+00  -1.468E+00   1.875E-17
IY= 10  -2.981E-01  -5.578E-01  -8.689E-01  -1.090E+00  -1.292E+00  -1.413E+00  -1.479E+00   5.170E-26
IY=  9  -3.228E-01  -5.998E-01  -9.246E-01  -1.144E+00  -1.332E+00  -1.434E+00  -1.490E+00   4.524E-26
IY=  8  -3.453E-01  -6.367E-01  -9.732E-01  -1.192E+00  -1.369E+00  -1.457E+00  -1.502E+00   4.524E-26
IY=  7  -3.662E-01  -6.721E-01  -1.019E+00  -1.238E+00  -1.405E+00  -1.479E+00  -1.515E+00   4.524E-26
IY=  6  -3.837E-01  -7.016E-01  -1.057E+00  -1.275E+00  -1.434E+00  -1.498E+00  -1.526E+00   4.201E-26
IY=  5  -3.941E-01  -7.214E-01  -1.085E+00  -1.304E+00  -1.457E+00  -1.514E+00  -1.537E+00   5.170E-26
IY=  4  -3.822E-01  -7.115E-01  -1.086E+00  -1.310E+00  -1.464E+00  -1.522E+00  -1.546E+00   5.816E-26
IY=  3  -3.619E-01  -6.813E-01  -1.033E+00  -1.250E+00  -1.424E+00  -1.508E+00  -1.547E+00   2.585E-26
IY=  2  -2.732E-01  -5.399E-01  -9.068E-01  -1.173E+00  -1.389E+00  -1.497E+00  -1.549E+00   8.078E-26
IY=  1  -1.277E-01  -2.863E-01  -5.794E-01  -8.802E-01  -1.228E+00  -1.447E+00  -1.542E+00   8.078E-26
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -2.153E-01  -2.128E-01  -2.072E-01  -1.963E-01  -1.799E-01  -1.583E-01  -1.353E-01  -1.119E-01  -1.078E-01
IY= 21  -4.247E-01  -4.231E-01  -4.186E-01  -4.092E-01  -3.936E-01  -3.695E-01  -3.394E-01  -3.021E-01  -3.053E-01
IY= 20  -5.453E-01  -5.436E-01  -5.388E-01  -5.287E-01  -5.113E-01  -4.831E-01  -4.456E-01  -3.944E-01  -4.036E-01
IY= 19  -6.513E-01  -6.490E-01  -6.432E-01  -6.306E-01  -6.093E-01  -5.753E-01  -5.301E-01  -4.640E-01  -4.893E-01
IY= 18  -7.403E-01  -7.386E-01  -7.337E-01  -7.230E-01  -7.026E-01  -6.655E-01  -6.086E-01  -5.075E-01  -6.268E-01
IY= 17  -7.379E-01  -7.365E-01  -7.319E-01  -7.214E-01  -7.023E-01  -6.680E-01  -6.164E-01  -5.002E-01  -6.011E-01
IY= 16  -7.119E-01  -7.106E-01  -7.063E-01  -6.964E-01  -6.786E-01  -6.467E-01  -5.949E-01  -4.536E-01  -5.561E-01
IY= 15  -6.590E-01  -6.577E-01  -6.537E-01  -6.445E-01  -6.282E-01  -5.971E-01  -5.403E-01  -3.746E-01  -5.062E-01
IY= 14  -6.162E-01  -6.147E-01  -6.108E-01  -6.022E-01  -5.869E-01  -5.566E-01  -4.952E-01  -3.150E-01  -4.767E-01
IY= 13  -4.598E-01  -4.580E-01  -4.549E-01  -4.491E-01  -4.397E-01  -4.183E-01  -3.581E-01  -1.580E-01  -4.191E-01
IY= 12  -2.585E-01  -2.573E-01  -2.549E-01  -2.515E-01  -2.476E-01  -2.399E-01  -2.030E-01   2.293E-03  -3.636E-01
IY= 11  -2.793E-10  -3.277E-10  -4.940E-10  -4.959E-10  -6.606E-10  -6.318E-10  -4.294E-10  -1.237E-11  -3.108E-01
IY= 10  -8.711E-02  -7.080E-02  -7.003E-02  -6.581E-02  -6.603E-02  -7.118E-02  -6.560E-02  -3.625E-02  -2.695E-01
IY=  9  -2.018E-01  -1.641E-01  -1.299E-01  -9.958E-02  -9.115E-02  -1.002E-01  -9.791E-02  -5.580E-02  -2.410E-01
IY=  8  -3.155E-01  -2.540E-01  -1.851E-01  -1.232E-01  -1.012E-01  -1.118E-01  -1.158E-01  -6.815E-02  -2.157E-01
IY=  7  -4.253E-01  -3.347E-01  -2.293E-01  -1.334E-01  -9.549E-02  -1.071E-01  -1.206E-01  -7.398E-02  -1.914E-01
IY=  6  -5.206E-01  -3.981E-01  -2.545E-01  -1.246E-01  -7.133E-02  -8.563E-02  -1.123E-01  -7.311E-02  -1.677E-01
IY=  5  -5.879E-01  -4.354E-01  -2.573E-01  -9.979E-02  -3.518E-02  -5.387E-02  -9.515E-02  -6.732E-02  -1.469E-01
IY=  4  -6.359E-01  -4.522E-01  -2.358E-01  -4.949E-02   2.580E-02  -1.007E-03  -6.345E-02  -5.473E-02  -1.219E-01
IY=  3  -6.416E-01  -4.491E-01  -2.025E-01   1.596E-02   1.041E-01   6.537E-02  -2.143E-02  -3.659E-02  -9.309E-02
IY=  2  -6.312E-01  -4.401E-01  -1.740E-01   4.883E-02   1.294E-01   8.394E-02  -7.939E-03  -2.894E-02  -7.935E-02
IY=  1  -4.487E-01  -3.276E-01  -1.388E-01   5.906E-02   1.547E-01   1.117E-01   2.038E-02  -9.321E-03  -4.007E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
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IY= 23  -6.697E-01  -6.526E-01  -6.104E-01  -5.298E-01  -4.127E-01  -2.700E-01  -1.419E-01  -4.431E-02  -7.320E-09
IY= 22  -4.001E-01  -3.894E-01  -3.628E-01  -3.102E-01  -2.313E-01  -1.314E-01  -3.827E-02   3.345E-02   7.286E-02
IY= 21  -1.933E-01  -1.851E-01  -1.645E-01  -1.239E-01  -6.279E-02   1.521E-02   8.625E-02   1.360E-01   1.728E-01
IY= 20   1.298E-02   1.956E-02   3.582E-02   6.776E-02   1.155E-01   1.751E-01   2.258E-01   2.520E-01   2.919E-01
IY= 19   2.207E-01   2.253E-01   2.364E-01   2.588E-01   2.933E-01   3.364E-01   3.672E-01   3.631E-01   4.264E-01
IY= 18   1.033E-01   1.067E-01   1.143E-01   1.295E-01   1.524E-01   1.793E-01   1.912E-01   1.591E-01   5.424E-01
IY= 17   1.330E-03   3.644E-03   9.168E-03   1.990E-02   3.570E-02   5.264E-02   5.482E-02   1.798E-02   6.218E-01
IY= 16  -8.693E-02  -8.547E-02  -8.142E-02  -7.353E-02  -6.221E-02  -5.119E-02  -5.412E-02  -8.985E-02   6.538E-01
IY= 15  -1.353E-01  -1.342E-01  -1.307E-01  -1.238E-01  -1.141E-01  -1.057E-01  -1.116E-01  -1.448E-01   6.647E-01
IY= 14  -2.187E-01  -2.181E-01  -2.157E-01  -2.109E-01  -2.046E-01  -2.009E-01  -2.094E-01  -2.245E-01   6.736E-01
IY= 13  -2.977E-01  -2.971E-01  -2.953E-01  -2.918E-01  -2.873E-01  -2.851E-01  -2.920E-01  -2.828E-01   6.777E-01
IY= 12  -3.604E-01  -3.598E-01  -3.579E-01  -3.551E-01  -3.529E-01  -3.546E-01  -3.627E-01  -3.353E-01   6.793E-01
IY= 11   5.117E+00   4.940E+00   4.664E+00   4.182E+00   3.584E+00   2.714E+00   1.771E+00   8.126E-01   6.795E-01
IY= 10   5.327E+00   5.141E+00   4.842E+00   4.325E+00   3.695E+00   2.791E+00   1.821E+00   8.375E-01   6.793E-01
IY=  9   5.558E+00   5.371E+00   5.057E+00   4.502E+00   3.832E+00   2.885E+00   1.882E+00   8.684E-01   6.794E-01
IY=  8   5.844E+00   5.650E+00   5.314E+00   4.711E+00   3.994E+00   2.997E+00   1.956E+00   9.056E-01   6.800E-01
IY=  7   6.178E+00   5.970E+00   5.602E+00   4.944E+00   4.174E+00   3.122E+00   2.039E+00   9.470E-01   6.810E-01
IY=  6   6.508E+00   6.283E+00   5.883E+00   5.172E+00   4.350E+00   3.246E+00   2.120E+00   9.869E-01   6.820E-01
IY=  5   6.869E+00   6.614E+00   6.172E+00   5.402E+00   4.530E+00   3.375E+00   2.203E+00   1.027E+00   6.827E-01
IY=  4   7.165E+00   6.893E+00   6.428E+00   5.623E+00   4.713E+00   3.506E+00   2.288E+00   1.068E+00   6.817E-01
IY=  3   7.248E+00   7.002E+00   6.577E+00   5.800E+00   4.871E+00   3.608E+00   2.341E+00   1.091E+00   6.804E-01
IY=  2   7.374E+00   7.158E+00   6.739E+00   5.948E+00   4.992E+00   3.694E+00   2.395E+00   1.116E+00   6.720E-01
IY=  1   7.401E+00   7.264E+00   6.938E+00   6.217E+00   5.199E+00   3.783E+00   2.427E+00   1.131E+00   6.572E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   2.345E-01   2.331E-01   2.295E-01   2.202E-01   2.023E-01   1.718E-01   1.361E-01   1.011E-01   9.081E-02
IY= 22   1.881E-01   1.871E-01   1.844E-01   1.781E-01   1.667E-01   1.471E-01   1.228E-01   9.709E-02   9.025E-02
IY= 21   1.580E-01   1.571E-01   1.548E-01   1.495E-01   1.398E-01   1.235E-01   1.033E-01   8.189E-02   7.762E-02
IY= 20   1.383E-01   1.372E-01   1.347E-01   1.291E-01   1.195E-01   1.041E-01   8.538E-02   6.558E-02   6.297E-02
IY= 19   1.001E-01   9.893E-02   9.623E-02   9.082E-02   8.242E-02   7.060E-02   5.763E-02   4.324E-02   4.743E-02
IY= 18   9.796E-02   9.833E-02   9.715E-02   9.372E-02   8.777E-02   7.823E-02   6.307E-02   2.285E-03   5.079E-03
IY= 17   9.801E-02   9.855E-02   9.815E-02   9.608E-02   9.187E-02   8.333E-02   6.617E-02   1.904E-03   5.421E-03
IY= 16   9.860E-02   9.881E-02   9.854E-02   9.697E-02   9.327E-02   8.455E-02   6.595E-02   1.538E-03   5.341E-03
IY= 15   1.037E-01   1.041E-01   1.039E-01   1.023E-01   9.818E-02   8.850E-02   6.799E-02   1.230E-03   5.163E-03
IY= 14   1.322E-01   1.325E-01   1.319E-01   1.289E-01   1.219E-01   1.059E-01   7.708E-02   9.630E-04   4.965E-03
IY= 13   1.570E-01   1.555E-01   1.533E-01   1.484E-01   1.382E-01   1.160E-01   7.876E-02   7.973E-04   4.677E-03
IY= 12   1.129E-03   1.128E-03   1.125E-03   1.125E-03   1.135E-03   1.173E-03   1.224E-03   1.011E-03   4.420E-03
IY= 11   1.432E-01   1.346E-01   1.225E-01   1.028E-01   8.111E-02   5.433E-02   3.253E-02   6.806E-03   4.217E-03
IY= 10   2.007E-01   1.176E-01   6.195E-02   3.681E-02   2.706E-02   1.988E-02   1.278E-02   5.249E-03   4.083E-03
IY=  9   2.410E-01   1.414E-01   6.976E-02   4.017E-02   2.876E-02   2.046E-02   1.303E-02   5.614E-03   3.993E-03
IY=  8   2.708E-01   1.624E-01   7.943E-02   4.633E-02   3.324E-02   2.316E-02   1.428E-02   6.062E-03   3.923E-03
IY=  7   2.939E-01   1.798E-01   8.938E-02   5.318E-02   3.829E-02   2.627E-02   1.573E-02   6.571E-03   3.868E-03
IY=  6   3.110E-01   1.939E-01   9.860E-02   5.971E-02   4.326E-02   2.943E-02   1.722E-02   7.072E-03   3.825E-03
IY=  5   3.231E-01   2.066E-01   1.083E-01   6.630E-02   4.818E-02   3.276E-02   1.879E-02   7.596E-03   3.785E-03
IY=  4   3.125E-01   2.094E-01   1.177E-01   7.411E-02   5.482E-02   3.725E-02   2.065E-02   8.133E-03   3.730E-03
IY=  3   2.979E-01   2.044E-01   1.197E-01   8.184E-02   6.482E-02   4.423E-02   2.272E-02   8.450E-03   3.688E-03
IY=  2   2.563E-01   1.986E-01   1.381E-01   9.890E-02   7.772E-02   5.180E-02   2.528E-02   8.799E-03   3.580E-03
IY=  1   2.756E-01   2.665E-01   2.456E-01   2.027E-01   1.496E-01   8.978E-02   4.807E-02   1.083E-02   3.427E-03
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   2.582E-02   2.559E-02   2.497E-02   2.341E-02   2.045E-02   1.579E-02   1.090E-02   6.737E-03   5.364E-03
IY= 22   1.638E-02   1.625E-02   1.588E-02   1.502E-02   1.343E-02   1.096E-02   8.182E-03   5.557E-03   4.722E-03
IY= 21   1.204E-02   1.193E-02   1.166E-02   1.104E-02   9.934E-03   8.172E-03   6.166E-03   4.242E-03   3.717E-03
IY= 20   9.497E-03   9.394E-03   9.156E-03   8.582E-03   7.640E-03   6.189E-03   4.621E-03   3.131E-03   2.857E-03
IY= 19   6.168E-03   6.079E-03   5.879E-03   5.479E-03   4.831E-03   3.908E-03   2.963E-03   1.988E-03   2.277E-03
IY= 18   6.034E-03   6.091E-03   6.008E-03   5.750E-03   5.306E-03   4.613E-03   3.667E-03   1.500E-04   5.218E-04
IY= 17   6.120E-03   6.197E-03   6.189E-03   6.049E-03   5.761E-03   5.204E-03   4.173E-03   1.141E-04   5.754E-04
IY= 16   6.258E-03   6.301E-03   6.312E-03   6.229E-03   6.010E-03   5.491E-03   4.389E-03   8.288E-05   5.626E-04
IY= 15   6.743E-03   6.804E-03   6.831E-03   6.768E-03   6.557E-03   5.995E-03   4.756E-03   5.926E-05   5.348E-04
IY= 14   1.040E-02   1.050E-02   1.051E-02   1.032E-02   9.807E-03   8.583E-03   6.391E-03   4.104E-05   5.043E-04
IY= 13   1.519E-02   1.499E-02   1.477E-02   1.432E-02   1.332E-02   1.109E-02   7.451E-03   3.092E-05   4.611E-04
IY= 12   4.715E-05   4.704E-05   4.690E-05   4.686E-05   4.748E-05   4.989E-05   5.322E-05   4.206E-05   4.236E-04
IY= 11   8.186E-02   7.462E-02   6.480E-02   4.979E-02   3.490E-02   1.913E-02   8.864E-03   8.097E-04   3.948E-04
IY= 10   7.440E-02   4.002E-02   2.024E-02   1.120E-02   7.681E-03   5.012E-03   2.594E-03   5.223E-04   3.761E-04
IY=  9   8.805E-02   4.622E-02   2.166E-02   1.142E-02   7.734E-03   5.028E-03   2.607E-03   5.777E-04   3.637E-04
IY=  8   9.998E-02   5.315E-02   2.482E-02   1.350E-02   9.328E-03   6.037E-03   3.028E-03   6.482E-04   3.542E-04
IY=  7   1.096E-01   5.962E-02   2.853E-02   1.614E-02   1.135E-02   7.321E-03   3.561E-03   7.315E-04   3.468E-04
IY=  6   1.173E-01   6.537E-02   3.223E-02   1.886E-02   1.351E-02   8.727E-03   4.146E-03   8.169E-04   3.410E-04
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IY=  5   1.224E-01   7.048E-02   3.631E-02   2.181E-02   1.583E-02   1.030E-02   4.799E-03   9.093E-04   3.357E-04
IY=  4   1.159E-01   7.069E-02   3.996E-02   2.541E-02   1.912E-02   1.255E-02   5.630E-03   1.007E-03   3.284E-04
IY=  3   1.075E-01   6.719E-02   3.983E-02   2.876E-02   2.409E-02   1.600E-02   6.632E-03   1.067E-03   3.229E-04
IY=  2   8.459E-02   6.195E-02   4.619E-02   3.754E-02   3.124E-02   1.952E-02   7.648E-03   1.134E-03   3.088E-04
IY=  1   1.945E-01   1.849E-01   1.636E-01   1.226E-01   7.781E-02   3.616E-02   1.417E-02   1.532E-03   2.892E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   2.966E+05   2.966E+05   2.966E+05   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05
IY= 22   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05
IY= 21   2.962E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05
IY= 20   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 19   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 18   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 17   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 16   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 10   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  9   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  8   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  7   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  6   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  5   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  4   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  3   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  2   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  1   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.917E-01   1.912E-01   1.898E-01   1.865E-01   1.802E-01   1.683E-01   1.528E-01   1.365E-01   1.384E-01
IY= 22   1.944E-01   1.939E-01   1.927E-01   1.901E-01   1.861E-01   1.776E-01   1.658E-01   1.527E-01   1.553E-01
IY= 21   1.867E-01   1.862E-01   1.850E-01   1.822E-01   1.771E-01   1.679E-01   1.559E-01   1.423E-01   1.459E-01
IY= 20   1.812E-01   1.805E-01   1.787E-01   1.749E-01   1.683E-01   1.576E-01   1.420E-01   1.236E-01   1.249E-01
IY= 19   1.461E-01   1.449E-01   1.418E-01   1.355E-01   1.266E-01   1.148E-01   1.009E-01   8.465E-02   8.895E-02
IY= 18   1.431E-01   1.429E-01   1.414E-01   1.375E-01   1.307E-01   1.194E-01   9.764E-02   3.133E-03   4.449E-03
IY= 17   1.413E-01   1.411E-01   1.401E-01   1.373E-01   1.318E-01   1.201E-01   9.443E-02   2.859E-03   4.597E-03
IY= 16   1.398E-01   1.394E-01   1.385E-01   1.359E-01   1.303E-01   1.172E-01   8.919E-02   2.570E-03   4.563E-03
IY= 15   1.436E-01   1.433E-01   1.421E-01   1.390E-01   1.323E-01   1.176E-01   8.747E-02   2.298E-03   4.486E-03
IY= 14   1.512E-01   1.507E-01   1.490E-01   1.448E-01   1.363E-01   1.176E-01   8.366E-02   2.034E-03   4.399E-03
IY= 13   1.461E-01   1.452E-01   1.432E-01   1.384E-01   1.291E-01   1.091E-01   7.493E-02   1.850E-03   4.270E-03
IY= 12   2.434E-03   2.433E-03   2.430E-03   2.429E-03   2.440E-03   2.481E-03   2.535E-03   2.188E-03   4.151E-03
IY= 11   2.254E-02   2.186E-02   2.085E-02   1.910E-02   1.697E-02   1.389E-02   1.074E-02   5.149E-03   4.054E-03
IY= 10   4.873E-02   3.111E-02   1.706E-02   1.089E-02   8.581E-03   7.098E-03   5.663E-03   4.748E-03   3.989E-03
IY=  9   5.939E-02   3.895E-02   2.022E-02   1.272E-02   9.623E-03   7.490E-03   5.864E-03   4.910E-03   3.945E-03
IY=  8   6.599E-02   4.464E-02   2.288E-02   1.432E-02   1.066E-02   7.994E-03   6.062E-03   5.102E-03   3.910E-03
IY=  7   7.093E-02   4.883E-02   2.521E-02   1.577E-02   1.162E-02   8.484E-03   6.255E-03   5.312E-03   3.883E-03
IY=  6   7.420E-02   5.176E-02   2.715E-02   1.702E-02   1.247E-02   8.935E-03   6.436E-03   5.511E-03   3.861E-03
IY=  5   7.674E-02   5.449E-02   2.908E-02   1.814E-02   1.319E-02   9.375E-03   6.621E-03   5.711E-03   3.841E-03
IY=  4   7.581E-02   5.582E-02   3.120E-02   1.946E-02   1.415E-02   9.950E-03   6.815E-03   5.910E-03   3.813E-03
IY=  3   7.431E-02   5.598E-02   3.239E-02   2.096E-02   1.570E-02   1.100E-02   7.005E-03   6.024E-03   3.792E-03
IY=  2   6.991E-02   5.729E-02   3.719E-02   2.345E-02   1.740E-02   1.237E-02   7.520E-03   6.147E-03   3.736E-03
IY=  1   3.515E-02   3.456E-02   3.318E-02   3.014E-02   2.590E-02   2.006E-02   1.468E-02   6.894E-03   3.655E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   2.954E+02   2.954E+02   2.954E+02   2.954E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02
IY= 22   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02
IY= 21   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02
IY= 20   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 19   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 18   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 17   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 16   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
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IY= 12   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  7   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  6   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  5   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  4   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  3   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  2   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  1   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 22   1.201E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 21   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 20   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 19   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 18   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 17   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 16   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 14   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 12   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 11   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 10   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  9   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  8   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  7   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  6   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  5   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  4   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  3   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  2   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  1   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    12 ITERN NO=      1


FLOW FIELD AT ITHYD=  1. IZ= 12, ISWEEP=  70, ISTEP=    1
FIELD VALUES OF P1
IY= 23  -5.661E-01  -5.610E-01  -5.650E-01  -5.718E-01  -5.796E-01  -5.864E-01  -5.902E-01  -5.746E-01  -5.859E-01
IY= 22  -5.729E-01  -5.633E-01  -5.660E-01  -5.707E-01  -5.768E-01  -5.834E-01  -5.881E-01  -5.734E-01  -5.826E-01
IY= 21  -6.820E-01  -6.769E-01  -6.778E-01  -6.792E-01  -6.808E-01  -6.818E-01  -6.815E-01  -6.602E-01  -6.727E-01
IY= 20  -8.090E-01  -8.070E-01  -8.076E-01  -8.083E-01  -8.084E-01  -8.067E-01  -8.027E-01  -7.727E-01  -7.884E-01
IY= 19  -1.179E+00  -1.181E+00  -1.183E+00  -1.185E+00  -1.182E+00  -1.166E+00  -1.132E+00  -1.040E+00  -1.033E+00
IY= 18  -3.393E+00  -3.398E+00  -3.407E+00  -3.407E+00  -3.368E+00  -3.217E+00  -2.912E+00  -2.281E+00  -1.644E+00
IY= 17  -4.225E+00  -4.221E+00  -4.207E+00  -4.162E+00  -4.072E+00  -3.889E+00  -3.665E+00  -3.013E+00  -1.669E+00
IY= 16  -5.625E+00  -5.615E+00  -5.586E+00  -5.515E+00  -5.408E+00  -5.261E+00  -5.227E+00  -5.317E+00  -1.042E+00
IY= 15  -6.041E+00  -6.041E+00  -6.035E+00  -6.013E+00  -5.979E+00  -5.899E+00  -5.797E+00  -5.461E+00  -1.057E+00
IY= 14  -5.946E+00  -5.954E+00  -5.970E+00  -5.994E+00  -6.050E+00  -6.129E+00  -6.157E+00  -5.778E+00  -1.059E+00
IY= 13  -4.503E+00  -4.514E+00  -4.545E+00  -4.633E+00  -4.843E+00  -5.275E+00  -5.703E+00  -5.505E+00  -1.047E+00
IY= 12  -2.676E+00  -2.682E+00  -2.707E+00  -2.800E+00  -3.066E+00  -3.775E+00  -4.818E+00  -5.211E+00  -1.024E+00
IY= 11  -3.162E+01  -3.168E+01  -3.178E+01  -3.135E+01  -3.066E+01  -2.967E+01  -2.890E+01  -2.364E+01  -9.990E-01
IY= 10  -3.461E+01  -3.460E+01  -3.448E+01  -3.346E+01  -3.209E+01  -3.057E+01  -2.957E+01  -2.406E+01  -9.803E-01
IY=  9  -4.022E+01  -4.002E+01  -3.928E+01  -3.702E+01  -3.432E+01  -3.191E+01  -3.051E+01  -2.462E+01  -9.678E-01
IY=  8  -5.008E+01  -4.939E+01  -4.720E+01  -4.240E+01  -3.738E+01  -3.363E+01  -3.165E+01  -2.528E+01  -9.571E-01
IY=  7  -6.713E+01  -6.541E+01  -5.968E+01  -4.993E+01  -4.115E+01  -3.558E+01  -3.292E+01  -2.598E+01  -9.475E-01
IY=  6  -9.284E+01  -8.945E+01  -7.606E+01  -5.837E+01  -4.484E+01  -3.740E+01  -3.410E+01  -2.664E+01  -9.392E-01
IY=  5  -1.221E+02  -1.195E+02  -9.354E+01  -6.629E+01  -4.808E+01  -3.904E+01  -3.522E+01  -2.727E+01  -9.321E-01
IY=  4  -1.177E+02  -1.192E+02  -9.566E+01  -6.838E+01  -4.961E+01  -4.021E+01  -3.620E+01  -2.787E+01  -9.249E-01
IY=  3  -1.051E+02  -1.042E+02  -8.566E+01  -6.419E+01  -4.868E+01  -4.034E+01  -3.660E+01  -2.819E+01  -9.195E-01
IY=  2  -7.916E+01  -7.818E+01  -7.117E+01  -5.879E+01  -4.758E+01  -4.048E+01  -3.703E+01  -2.852E+01  -9.158E-01
IY=  1  -6.200E+01  -6.130E+01  -5.883E+01  -5.262E+01  -4.565E+01  -4.016E+01  -3.717E+01  -2.870E+01  -9.117E-01
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 IX=         1            2            3            4            5            6            7            8            9
FIELD VALUES OF U1
IY= 23   7.198E-03    1.341E-02    1.983E-02    2.151E-02    1.628E-02    4.392E-03   -1.139E-02    1.877E-02
IY= 22   1.165E-02    2.237E-02    3.537E-02    4.292E-02    4.298E-02    3.162E-02    1.101E-02    3.128E-02
IY= 21   6.401E-03    1.215E-02    1.864E-02    2.128E-02    1.777E-02    6.435E-03   -1.067E-02    2.396E-02
IY= 20   2.695E-03    4.829E-03    6.246E-03    4.564E-03   -3.031E-03   -1.594E-02   -3.157E-02    1.778E-02
IY= 19  -3.550E-05   -1.055E-03   -5.567E-03   -1.515E-02   -3.579E-02   -6.100E-02   -8.376E-02   -4.495E-03
IY= 18   2.472E-03    9.998E-04   -1.231E-02   -4.576E-02   -1.295E-01   -2.648E-01   -4.327E-01   -3.755E-01
IY= 17  -6.582E-03   -1.821E-02   -5.091E-02   -1.125E-01   -2.547E-01   -4.904E-01   -8.334E-01   -1.022E+00
IY= 16  -1.573E-02   -3.784E-02   -8.979E-02   -1.747E-01   -3.398E-01   -5.269E-01   -6.223E-01   -7.283E-07
IY= 15  -1.668E-02   -4.077E-02   -9.896E-02   -1.943E-01   -3.734E-01   -5.550E-01   -6.081E-01   -2.180E-13
IY= 14  -1.201E-02   -3.406E-02   -9.504E-02   -1.968E-01   -3.800E-01   -5.553E-01   -6.005E-01   -2.020E-20
IY= 13  -2.715E-03   -1.226E-02   -4.489E-02   -1.014E-01   -2.103E-01   -3.697E-01   -5.136E-01    2.011E-17
IY= 12   8.350E-03    1.831E-02    4.592E-02    1.111E-01    2.647E-01    4.441E-01    3.064E-01    1.401E-09
IY= 11  -5.216E-01   -9.745E-01   -1.526E+00   -1.879E+00   -2.118E+00   -2.148E+00   -2.076E+00    3.170E-17
IY= 10  -6.396E-01   -1.170E+00   -1.768E+00   -2.100E+00   -2.267E+00   -2.230E+00   -2.120E+00    3.231E-26
IY=  9  -8.114E-01   -1.461E+00   -2.129E+00   -2.421E+00   -2.480E+00   -2.349E+00   -2.182E+00    2.908E-26
IY=  8  -1.101E+00   -1.941E+00   -2.687E+00   -2.889E+00   -2.770E+00   -2.507E+00   -2.263E+00    2.908E-26
IY=  7  -1.599E+00   -2.749E+00   -3.527E+00   -3.524E+00   -3.128E+00   -2.692E+00   -2.356E+00    2.908E-26
IY=  6  -2.342E+00   -3.955E+00   -4.590E+00   -4.227E+00   -3.484E+00   -2.865E+00   -2.442E+00    2.585E-26
IY=  5  -3.434E+00   -5.775E+00   -5.883E+00   -4.964E+00   -3.824E+00   -3.028E+00   -2.524E+00    3.231E-26
IY=  4  -3.701E+00   -6.258E+00   -6.299E+00   -5.240E+00   -3.976E+00   -3.120E+00   -2.585E+00    3.554E-26
IY=  3  -2.756E+00   -4.949E+00   -5.402E+00   -4.808E+00   -3.847E+00   -3.093E+00   -2.597E+00    1.616E-26
IY=  2  -2.033E+00   -3.509E+00   -4.319E+00   -4.185E+00   -3.610E+00   -3.036E+00   -2.609E+00    4.847E-26
IY=  1  -1.213E+00   -2.204E+00   -3.125E+00   -3.394E+00   -3.259E+00   -2.920E+00   -2.593E+00    4.847E-26
 IX=         1            2            3            4            5            6            7            8
FIELD VALUES OF V1
IY= 22  -2.724E-01   -2.681E-01   -2.584E-01   -2.402E-01   -2.139E-01   -1.814E-01   -1.499E-01   -1.205E-01   -1.144E-01
IY= 21  -4.616E-01   -4.602E-01   -4.560E-01   -4.470E-01   -4.322E-01   -4.092E-01   -3.796E-01   -3.409E-01   -3.476E-01
IY= 20  -6.051E-01   -6.044E-01   -6.019E-01   -5.957E-01   -5.835E-01   -5.601E-01   -5.244E-01   -4.710E-01   -4.874E-01
IY= 19  -8.605E-01   -8.595E-01   -8.563E-01   -8.477E-01   -8.296E-01   -7.919E-01   -7.324E-01   -6.413E-01   -6.625E-01
IY= 18  -1.772E+00   -1.771E+00   -1.766E+00   -1.750E+00   -1.708E+00   -1.602E+00   -1.424E+00   -1.122E+00   -1.027E+00
IY= 17  -2.071E+00   -2.069E+00   -2.062E+00   -2.039E+00   -1.986E+00   -1.865E+00   -1.652E+00   -1.232E+00   -9.067E-01
IY= 16  -2.563E+00   -2.560E+00   -2.551E+00   -2.526E+00   -2.472E+00   -2.361E+00   -2.156E+00   -1.676E+00   -2.263E-01
IY= 15  -2.689E+00   -2.690E+00   -2.690E+00   -2.680E+00   -2.642E+00   -2.520E+00   -2.200E+00   -1.437E+00   -3.703E-01
IY= 14  -2.657E+00   -2.660E+00   -2.667E+00   -2.669E+00   -2.646E+00   -2.518E+00   -2.126E+00   -1.262E+00   -4.051E-01
IY= 13  -2.154E+00   -2.160E+00   -2.175E+00   -2.202E+00   -2.212E+00   -2.092E+00   -1.598E+00   -6.655E-01   -3.892E-01
IY= 12  -1.255E+00   -1.262E+00   -1.283E+00   -1.329E+00   -1.381E+00   -1.362E+00   -9.310E-01    4.805E-02   -3.460E-01
IY= 11  -3.468E-09   -3.511E-09   -5.411E-09   -5.665E-09   -7.941E-09   -7.787E-09   -4.775E-09   -3.048E-11   -2.953E-01
IY= 10  -1.039E+00   -1.030E+00   -9.747E-01   -8.402E-01   -6.879E-01   -5.362E-01   -3.895E-01   -1.953E-01   -2.533E-01
IY=  9  -1.966E+00   -1.905E+00   -1.749E+00   -1.452E+00   -1.151E+00   -8.763E-01   -6.261E-01   -3.090E-01   -2.239E-01
IY=  8  -3.007E+00   -2.850E+00   -2.525E+00   -1.996E+00   -1.516E+00   -1.119E+00   -7.831E-01   -3.748E-01   -1.978E-01
IY=  7  -4.240E+00   -3.911E+00   -3.299E+00   -2.441E+00   -1.757E+00   -1.255E+00   -8.612E-01   -4.012E-01   -1.730E-01
IY=  6  -5.506E+00   -4.907E+00   -3.853E+00   -2.626E+00   -1.794E+00   -1.254E+00   -8.524E-01   -3.903E-01   -1.494E-01
IY=  5  -5.915E+00   -5.124E+00   -3.715E+00   -2.368E+00   -1.591E+00   -1.129E+00   -7.767E-01   -3.545E-01   -1.292E-01
IY=  4  -2.557E+00   -2.134E+00   -1.692E+00   -1.245E+00   -1.006E+00   -8.269E-01   -6.103E-01   -2.847E-01   -1.057E-01
IY=  3   2.043E+00    1.896E+00    1.129E+00    2.803E-01   -2.082E-01   -4.137E-01   -3.829E-01   -1.926E-01   -7.963E-02
IY=  2   3.134E+00    2.793E+00    1.719E+00    6.547E-01    3.528E-02   -2.586E-01   -2.890E-01   -1.541E-01   -6.745E-02
IY=  1   1.861E+00    1.782E+00    1.354E+00    7.397E-01    2.775E-01   -4.945E-03   -9.310E-02   -6.132E-02   -3.375E-02
 IX=         1            2            3            4            5            6            7            8            9
FIELD VALUES OF W1
IY= 23  -9.464E-01   -9.191E-01   -8.543E-01   -7.339E-01   -5.643E-01   -3.649E-01   -1.898E-01   -5.822E-02   -8.704E-09
IY= 22  -5.842E-01   -5.685E-01   -5.304E-01   -4.570E-01   -3.481E-01   -2.110E-01   -8.410E-02    1.416E-02    6.585E-02
IY= 21  -3.651E-01   -3.526E-01   -3.229E-01   -2.653E-01   -1.798E-01   -7.150E-02    2.726E-02    9.919E-02    1.445E-01
IY= 20  -2.076E-01   -1.965E-01   -1.704E-01   -1.200E-01   -4.585E-02    4.697E-02    1.283E-01    1.808E-01    2.260E-01
IY= 19  -1.269E-01   -1.146E-01   -8.636E-02   -3.275E-02    4.501E-02    1.401E-01    2.180E-01    2.597E-01    3.169E-01
IY= 18  -4.807E-01   -4.672E-01   -4.389E-01   -3.849E-01   -3.058E-01   -1.992E-01   -9.185E-02    2.728E-02    2.631E-01
IY= 17  -7.574E-01   -7.398E-01   -7.054E-01   -6.394E-01   -5.433E-01   -4.089E-01   -2.488E-01   -3.279E-02    2.879E-01
IY= 16  -1.490E-01   -1.343E-01   -1.077E-01   -6.052E-02   -4.857E-03    4.797E-02    8.373E-02    1.058E-01    5.125E-01
IY= 15   1.426E-01    1.593E-01    1.887E-01    2.339E-01    2.758E-01    2.958E-01    2.869E-01    2.450E-01    6.344E-01
IY= 14   7.315E-01    7.612E-01    8.102E-01    8.638E-01    8.921E-01    8.693E-01    8.019E-01    6.419E-01    7.606E-01
IY= 13   1.250E+00    1.270E+00    1.301E+00    1.326E+00    1.322E+00    1.263E+00    1.150E+00    9.008E-01    8.138E-01
IY= 12   1.704E+00    1.709E+00    1.710E+00    1.694E+00    1.659E+00    1.592E+00    1.505E+00    1.063E+00    8.330E-01
IY= 11   5.659E+00    5.134E+00    4.505E+00    3.589E+00    2.676E+00    1.562E+00    6.709E-01    9.444E-02    8.351E-01
IY= 10   5.968E+00    5.380E+00    4.697E+00    3.726E+00    2.788E+00    1.673E+00    7.936E-01    1.887E-01    8.318E-01
IY=  9   6.555E+00    5.871E+00    5.079E+00    3.988E+00    2.985E+00    1.853E+00    9.659E-01    3.216E-01    8.268E-01
IY=  8   7.744E+00    6.859E+00    5.807E+00    4.440E+00    3.286E+00    2.097E+00    1.172E+00    4.461E-01    8.212E-01
IY=  7   1.034E+01    8.964E+00    7.175E+00    5.153E+00    3.685E+00    2.376E+00    1.385E+00    5.570E-01    8.160E-01
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IY=  6   1.613E+01   1.351E+01   9.505E+00   6.092E+00   4.114E+00   2.635E+00   1.566E+00   6.447E-01   8.118E-01
IY=  5   3.025E+01   2.475E+01   1.359E+01   7.301E+00   4.584E+00   2.901E+00   1.740E+00   7.214E-01   8.077E-01
IY=  4   3.330E+01   2.721E+01   1.489E+01   7.785E+00   4.878E+00   3.114E+00   1.881E+00   7.808E-01   8.031E-01
IY=  3   2.498E+01   2.127E+01   1.240E+01   7.323E+00   4.881E+00   3.189E+00   1.938E+00   8.055E-01   8.005E-01
IY=  2   1.515E+01   1.294E+01   9.762E+00   6.787E+00   4.894E+00   3.286E+00   2.007E+00   8.324E-01   7.913E-01
IY=  1   1.069E+01   9.589E+00   8.208E+00   6.388E+00   4.877E+00   3.333E+00   2.038E+00   8.452E-01   7.773E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   3.241E-01   3.231E-01   3.200E-01   3.095E-01   2.858E-01   2.427E-01   1.911E-01   1.408E-01   1.262E-01
IY= 22   2.409E-01   2.403E-01   2.383E-01   2.327E-01   2.205E-01   1.971E-01   1.662E-01   1.321E-01   1.236E-01
IY= 21   1.929E-01   1.924E-01   1.912E-01   1.877E-01   1.796E-01   1.629E-01   1.398E-01   1.135E-01   1.098E-01
IY= 20   1.809E-01   1.804E-01   1.791E-01   1.756E-01   1.678E-01   1.522E-01   1.308E-01   1.060E-01   1.045E-01
IY= 19   3.585E-01   3.567E-01   3.520E-01   3.410E-01   3.189E-01   2.778E-01   2.292E-01   1.689E-01   1.541E-01
IY= 18   2.182E-02   2.179E-02   2.167E-02   2.127E-02   2.034E-02   1.830E-02   1.523E-02   9.897E-03   2.524E-01
IY= 17   3.070E-02   3.065E-02   3.046E-02   2.991E-02   2.878E-02   2.669E-02   2.381E-02   1.793E-02   4.308E-01
IY= 16   3.859E-02   3.857E-02   3.847E-02   3.806E-02   3.711E-02   3.474E-02   2.915E-02   1.577E-02   2.839E-03
IY= 15   3.986E-02   3.993E-02   4.004E-02   4.001E-02   3.950E-02   3.688E-02   2.886E-02   1.238E-02   4.265E-03
IY= 14   3.288E-02   3.300E-02   3.328E-02   3.374E-02   3.390E-02   3.156E-02   2.240E-02   8.086E-03   5.521E-03
IY= 13   1.754E-02   1.766E-02   1.800E-02   1.873E-02   1.943E-02   1.842E-02   1.131E-02   3.940E-03   5.933E-03
IY= 12   1.073E-02   1.079E-02   1.085E-02   1.082E-02   1.077E-02   1.065E-02   9.149E-03   5.449E-03   5.929E-03
IY= 11   1.731E-01   1.465E-01   1.211E-01   8.994E-02   6.553E-02   4.280E-02   3.105E-02   4.060E-03   5.767E-03
IY= 10   2.903E-01   1.824E-01   1.219E-01   8.082E-02   5.532E-02   3.133E-02   1.239E-02   9.050E-04   5.606E-03
IY=  9   4.352E-01   2.461E-01   1.420E-01   8.326E-02   5.215E-02   2.693E-02   9.720E-03   1.848E-03   5.465E-03
IY=  8   6.883E-01   3.786E-01   1.963E-01   1.020E-01   5.786E-02   2.807E-02   1.066E-02   2.796E-03   5.335E-03
IY=  7   1.210E+00   6.664E-01   3.137E-01   1.432E-01   7.225E-02   3.268E-02   1.279E-02   3.628E-03   5.220E-03
IY=  6   2.392E+00   1.330E+00   5.583E-01   2.154E-01   9.404E-02   3.885E-02   1.501E-02   4.235E-03   5.129E-03
IY=  5   4.452E+00   2.545E+00   1.062E+00   3.265E-01   1.222E-01   4.602E-02   1.721E-02   4.701E-03   5.045E-03
IY=  4   4.220E+00   2.327E+00   1.098E+00   3.481E-01   1.332E-01   5.007E-02   1.853E-02   5.000E-03   4.959E-03
IY=  3   2.778E+00   1.996E+00   9.427E-01   3.051E-01   1.246E-01   5.005E-02   1.864E-02   5.083E-03   4.908E-03
IY=  2   1.778E+00   1.552E+00   6.952E-01   2.579E-01   1.202E-01   5.100E-02   1.902E-02   5.256E-03   4.789E-03
IY=  1   5.477E-01   4.565E-01   3.654E-01   2.601E-01   1.820E-01   1.127E-01   6.732E-02   1.059E-02   4.628E-03
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   4.486E-02   4.465E-02   4.396E-02   4.163E-02   3.650E-02   2.797E-02   1.903E-02   1.151E-02   9.088E-03
IY= 22   2.595E-02   2.582E-02   2.542E-02   2.433E-02   2.208E-02   1.819E-02   1.363E-02   9.216E-03   7.838E-03
IY= 21   1.784E-02   1.775E-02   1.751E-02   1.690E-02   1.559E-02   1.317E-02   1.018E-02   7.177E-03   6.462E-03
IY= 20   1.542E-02   1.532E-02   1.512E-02   1.460E-02   1.351E-02   1.148E-02   8.954E-03   6.360E-03   5.924E-03
IY= 19   5.086E-02   5.038E-02   4.911E-02   4.610E-02   4.082E-02   3.263E-02   2.409E-02   1.459E-02   1.167E-02
IY= 18   2.899E-03   2.893E-03   2.868E-03   2.790E-03   2.608E-03   2.227E-03   1.690E-03   8.855E-04   3.685E-02
IY= 17   4.837E-03   4.825E-03   4.780E-03   4.651E-03   4.391E-03   3.921E-03   3.304E-03   2.158E-03   1.345E-01
IY= 16   6.817E-03   6.812E-03   6.786E-03   6.678E-03   6.429E-03   5.822E-03   4.477E-03   2.250E-03   2.181E-04
IY= 15   7.156E-03   7.174E-03   7.204E-03   7.198E-03   7.059E-03   6.370E-03   4.408E-03   1.566E-03   4.015E-04
IY= 14   5.361E-03   5.390E-03   5.460E-03   5.573E-03   5.614E-03   5.041E-03   3.015E-03   8.263E-04   5.914E-04
IY= 13   2.089E-03   2.111E-03   2.171E-03   2.305E-03   2.436E-03   2.249E-03   1.081E-03   2.810E-04   6.588E-04
IY= 12   1.189E-03   1.200E-03   1.210E-03   1.205E-03   1.197E-03   1.176E-03   9.371E-04   4.713E-04   6.581E-04
IY= 11   1.088E-01   8.473E-02   6.367E-02   4.075E-02   2.535E-02   1.338E-02   8.267E-03   3.731E-04   6.313E-04
IY= 10   1.729E-01   1.058E-01   6.620E-02   3.859E-02   2.327E-02   1.124E-02   3.561E-03   3.739E-05   6.050E-04
IY=  9   2.910E-01   1.598E-01   8.405E-02   4.208E-02   2.281E-02   9.920E-03   2.655E-03   1.091E-04   5.825E-04
IY=  8   6.037E-01   3.231E-01   1.429E-01   5.886E-02   2.731E-02   1.067E-02   2.844E-03   2.031E-04   5.618E-04
IY=  7   1.747E+00   9.357E-01   3.313E-01   1.048E-01   3.904E-02   1.329E-02   3.542E-03   3.002E-04   5.437E-04
IY=  6   7.605E+00   4.050E+00   1.045E+00   2.198E-01   6.048E-02   1.724E-02   4.413E-03   3.785E-04   5.295E-04
IY=  5   3.144E+01   1.777E+01   4.662E+00   5.150E-01   9.644E-02   2.253E-02   5.426E-03   4.428E-04   5.166E-04
IY=  4   3.215E+01   1.603E+01   5.156E+00   5.961E-01   1.120E-01   2.571E-02   6.113E-03   4.856E-04   5.035E-04
IY=  3   1.437E+01   1.006E+01   2.950E+00   3.777E-01   9.281E-02   2.526E-02   6.194E-03   4.978E-04   4.958E-04
IY=  2   6.769E+00   6.340E+00   1.408E+00   2.302E-01   7.545E-02   2.460E-02   6.346E-03   5.234E-04   4.777E-04
IY=  1   5.449E-01   4.145E-01   2.969E-01   1.783E-01   1.043E-01   5.086E-02   2.348E-02   1.481E-03   4.538E-04
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   2.979E+05   2.979E+05   2.979E+05   2.978E+05   2.976E+05   2.973E+05   2.970E+05   2.968E+05   2.966E+05
IY= 22   2.967E+05   2.968E+05   2.968E+05   2.969E+05   2.969E+05   2.969E+05   2.968E+05   2.966E+05   2.965E+05
IY= 21   2.967E+05   2.967E+05   2.968E+05   2.969E+05   2.969E+05   2.968E+05   2.966E+05   2.965E+05   2.964E+05
IY= 20   2.966E+05   2.966E+05   2.966E+05   2.967E+05   2.967E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05
IY= 19   2.965E+05   2.965E+05   2.965E+05   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05
IY= 18   2.965E+05   2.965E+05   2.965E+05   2.966E+05   2.965E+05   2.965E+05   2.963E+05   2.963E+05   2.962E+05
IY= 17   2.965E+05   2.965E+05   2.966E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05
IY= 16   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05
IY= 15   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05
IY= 14   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05
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IY= 13   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 10   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  9   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  8   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  7   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  6   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  5   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  4   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  3   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  2   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  1   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.107E-01   2.105E-01   2.096E-01   2.071E-01   2.015E-01   1.896E-01   1.727E-01   1.549E-01   1.576E-01
IY= 22   2.013E-01   2.013E-01   2.011E-01   2.004E-01   1.983E-01   1.923E-01   1.824E-01   1.704E-01   1.755E-01
IY= 21   1.876E-01   1.878E-01   1.879E-01   1.877E-01   1.862E-01   1.813E-01   1.728E-01   1.616E-01   1.678E-01
IY= 20   1.912E-01   1.911E-01   1.909E-01   1.901E-01   1.877E-01   1.817E-01   1.721E-01   1.591E-01   1.660E-01
IY= 19   2.274E-01   2.273E-01   2.271E-01   2.270E-01   2.242E-01   2.129E-01   1.963E-01   1.761E-01   1.833E-01
IY= 18   1.479E-02   1.477E-02   1.473E-02   1.460E-02   1.427E-02   1.354E-02   1.235E-02   9.957E-03   1.556E-01
IY= 17   1.754E-02   1.752E-02   1.747E-02   1.731E-02   1.698E-02   1.635E-02   1.544E-02   1.340E-02   1.242E-01
IY= 16   1.966E-02   1.966E-02   1.963E-02   1.953E-02   1.928E-02   1.865E-02   1.709E-02   9.945E-03   3.327E-03
IY= 15   1.998E-02   2.000E-02   2.003E-02   2.002E-02   1.989E-02   1.922E-02   1.700E-02   8.813E-03   4.077E-03
IY= 14   1.815E-02   1.818E-02   1.826E-02   1.838E-02   1.843E-02   1.778E-02   1.498E-02   7.122E-03   4.639E-03
IY= 13   1.325E-02   1.330E-02   1.343E-02   1.370E-02   1.395E-02   1.358E-02   1.064E-02   4.972E-03   4.809E-03
IY= 12   8.704E-03   8.729E-03   8.755E-03   8.743E-03   8.723E-03   8.672E-03   8.039E-03   5.670E-03   4.807E-03
IY= 11   2.479E-02   2.280E-02   2.073E-02   1.787E-02   1.525E-02   1.232E-02   1.050E-02   3.977E-03   4.741E-03
IY= 10   4.387E-02   2.831E-02   2.019E-02   1.523E-02   1.184E-02   7.859E-03   3.879E-03   1.971E-03   4.674E-03
IY=  9   5.859E-02   3.412E-02   2.159E-02   1.483E-02   1.073E-02   6.581E-03   3.203E-03   2.817E-03   4.616E-03
IY=  8   7.063E-02   3.992E-02   2.427E-02   1.591E-02   1.103E-02   6.646E-03   3.597E-03   3.465E-03   4.560E-03
IY=  7   7.543E-02   4.272E-02   2.674E-02   1.762E-02   1.203E-02   7.229E-03   4.159E-03   3.947E-03   4.511E-03
IY=  6   6.771E-02   3.928E-02   2.684E-02   1.900E-02   1.316E-02   7.880E-03   4.596E-03   4.264E-03   4.471E-03
IY=  5   5.674E-02   3.282E-02   2.176E-02   1.863E-02   1.395E-02   8.459E-03   4.910E-03   4.493E-03   4.435E-03
IY=  4   4.985E-02   3.040E-02   2.103E-02   1.829E-02   1.425E-02   8.776E-03   5.057E-03   4.634E-03   4.397E-03
IY=  3   4.833E-02   3.565E-02   2.711E-02   2.218E-02   1.505E-02   8.925E-03   5.050E-03   4.672E-03   4.374E-03
IY=  2   4.204E-02   3.421E-02   3.090E-02   2.602E-02   1.723E-02   9.515E-03   5.130E-03   4.751E-03   4.320E-03
IY=  1   4.956E-02   4.524E-02   4.048E-02   3.415E-02   2.856E-02   2.248E-02   1.737E-02   6.817E-03   4.247E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   2.968E+02   2.968E+02   2.967E+02   2.966E+02   2.964E+02   2.962E+02   2.959E+02   2.956E+02   2.954E+02
IY= 22   2.956E+02   2.956E+02   2.956E+02   2.957E+02   2.957E+02   2.957E+02   2.956E+02   2.954E+02   2.953E+02
IY= 21   2.955E+02   2.955E+02   2.956E+02   2.957E+02   2.957E+02   2.956E+02   2.954E+02   2.953E+02   2.952E+02
IY= 20   2.954E+02   2.954E+02   2.955E+02   2.955E+02   2.955E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02
IY= 19   2.953E+02   2.953E+02   2.954E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02
IY= 18   2.953E+02   2.953E+02   2.954E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02
IY= 17   2.953E+02   2.953E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02   2.950E+02
IY= 16   2.953E+02   2.953E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02
IY= 15   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02
IY= 14   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02
IY= 13   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.953E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  7   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  6   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  5   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  4   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  3   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  2   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  1   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.194E+00   1.194E+00   1.194E+00   1.194E+00   1.195E+00   1.196E+00   1.197E+00   1.199E+00   1.199E+00
IY= 22   1.199E+00   1.199E+00   1.198E+00   1.198E+00   1.198E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00
IY= 21   1.199E+00   1.199E+00   1.198E+00   1.198E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00
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IY= 20   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
IY= 19   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 18   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 17   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 16   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 15   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 14   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 12   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 11   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 10   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  9   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  8   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  7   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  6   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  5   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  4   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  3   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  2   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  1   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

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TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    13 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 13, ISWEEP=  70, ISTEP=    1
FIELD VALUES OF P1
IY= 23  -6.129E-01  -6.093E-01  -6.120E-01  -6.167E-01  -6.223E-01  -6.274E-01  -6.296E-01  -6.115E-01  -6.250E-01
IY= 22  -6.121E-01  -6.028E-01  -6.052E-01  -6.096E-01  -6.154E-01  -6.215E-01  -6.252E-01  -6.083E-01  -6.185E-01
IY= 21  -7.276E-01  -7.255E-01  -7.258E-01  -7.243E-01  -7.246E-01  -7.239E-01  -7.222E-01  -6.982E-01  -7.118E-01
IY= 20  -8.566E-01  -8.562E-01  -8.560E-01  -8.552E-01  -8.531E-01  -8.490E-01  -8.432E-01  -8.104E-01  -8.278E-01
IY= 19  -1.183E+00  -1.189E+00  -1.186E+00  -1.180E+00  -1.169E+00  -1.147E+00  -1.116E+00  -1.033E+00  -1.045E+00
IY= 18  -2.696E+00  -2.705E+00  -2.692E+00  -2.660E+00  -2.595E+00  -2.452E+00  -2.210E+00  -1.715E+00  -1.442E+00
IY= 17  -4.764E+00  -4.770E+00  -4.722E+00  -4.613E+00  -4.415E+00  -4.050E+00  -3.538E+00  -2.602E+00  -1.456E+00
IY= 16  -8.528E+00  -8.507E+00  -8.439E+00  -8.260E+00  -7.931E+00  -7.335E+00  -6.637E+00  -5.892E+00  -1.028E+00
IY= 15  -8.545E+00  -8.575E+00  -8.617E+00  -8.607E+00  -8.487E+00  -8.098E+00  -7.479E+00  -6.455E+00  -1.178E+00
IY= 14  -8.821E+00  -8.942E+00  -9.136E+00  -9.301E+00  -9.400E+00  -9.256E+00  -8.798E+00  -7.598E+00  -1.179E+00
IY= 13  -7.245E+00  -7.266E+00  -7.311E+00  -7.383E+00  -7.539E+00  -7.758E+00  -7.787E+00  -7.084E+00  -1.141E+00
IY= 12  -5.325E+00  -5.319E+00  -5.309E+00  -5.325E+00  -5.490E+00  -6.021E+00  -6.657E+00  -6.631E+00  -1.104E+00
IY= 11  -3.261E+01  -3.294E+01  -3.358E+01  -3.356E+01  -3.317E+01  -3.190E+01  -3.058E+01  -2.446E+01  -1.070E+00
IY= 10  -3.690E+01  -3.714E+01  -3.736E+01  -3.635E+01  -3.488E+01  -3.294E+01  -3.140E+01  -2.503E+01  -1.046E+00
IY=  9  -4.792E+01  -4.760E+01  -4.605E+01  -4.210E+01  -3.805E+01  -3.479E+01  -3.279E+01  -2.587E+01  -1.029E+00
IY=  8  -7.637E+01  -7.375E+01  -6.514E+01  -5.273E+01  -4.296E+01  -3.738E+01  -3.463E+01  -2.696E+01  -1.015E+00
IY=  7  -1.642E+02  -1.526E+02  -1.104E+02  -7.176E+01  -4.974E+01  -4.039E+01  -3.664E+01  -2.815E+01  -1.003E+00
IY=  6  -4.957E+02  -4.524E+02  -2.170E+02  -1.006E+02  -5.705E+01  -4.315E+01  -3.840E+01  -2.919E+01  -9.926E-01
IY=  5  -1.650E+03  -1.901E+03  -4.407E+02  -1.362E+02  -6.347E+01  -4.552E+01  -4.000E+01  -3.015E+01  -9.834E-01
IY=  4  -1.196E+03  -1.751E+03  -4.412E+02  -1.374E+02  -6.463E+01  -4.687E+01  -4.132E+01  -3.101E+01  -9.744E-01
IY=  3  -1.529E+03  -1.594E+03  -3.361E+02  -1.145E+02  -6.072E+01  -4.655E+01  -4.176E+01  -3.144E+01  -9.681E-01
IY=  2  -2.434E+02  -2.452E+02  -1.461E+02  -8.612E+01  -5.738E+01  -4.651E+01  -4.235E+01  -3.190E+01  -9.631E-01
IY=  1  -8.571E+01  -8.721E+01  -7.958E+01  -6.549E+01  -5.307E+01  -4.590E+01  -4.253E+01  -3.216E+01  -9.585E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23   4.870E-03   8.990E-03   1.262E-02   1.217E-02   5.690E-03  -5.769E-03  -1.934E-02   1.700E-02
IY= 22   1.116E-02   2.146E-02   3.390E-02   4.092E-02   4.006E-02   2.813E-02   7.394E-03   3.088E-02
IY= 21   5.122E-03   9.704E-03   1.461E-02   1.596E-02   1.127E-02  -4.097E-04  -1.693E-02   2.225E-02
IY= 20   3.530E-04   3.344E-04  -1.062E-03  -4.911E-03  -1.417E-02  -2.708E-02  -4.108E-02   1.407E-02
IY= 19  -6.466E-03  -1.319E-02  -2.478E-02  -3.907E-02  -6.258E-02  -8.816E-02  -1.083E-01  -2.280E-02
IY= 18  -1.294E-02  -2.627E-02  -4.965E-02  -8.055E-02  -1.377E-01  -2.172E-01  -3.134E-01  -2.178E-01
IY= 17  -3.032E-02  -5.822E-02  -1.044E-01  -1.589E-01  -2.526E-01  -3.937E-01  -6.286E-01  -7.763E-01
IY= 16  -4.953E-02  -1.036E-01  -2.003E-01  -3.150E-01  -4.867E-01  -6.493E-01  -7.120E-01  -7.728E-07
IY= 15  -4.017E-02  -9.508E-02  -2.120E-01  -3.587E-01  -5.750E-01  -7.609E-01  -7.897E-01  -3.184E-13
IY= 14   3.707E-02   1.398E-03  -1.494E-01  -3.509E-01  -6.348E-01  -8.630E-01  -8.882E-01  -7.940E-20
IY= 13   3.727E-02   1.591E-02  -9.961E-02  -2.597E-01  -4.948E-01  -7.219E-01  -7.818E-01   4.893E-18
IY= 12   1.621E-02   1.002E-02  -1.679E-02  -1.015E-02   6.093E-02   1.447E-01  -2.893E-02   5.631E-11
IY= 11  -7.457E-01  -1.364E+00  -2.091E+00  -2.545E+00  -2.844E+00  -2.815E+00  -2.460E+00   1.196E-18
IY= 10  -9.397E-01  -1.676E+00  -2.451E+00  -2.843E+00  -3.005E+00  -2.872E+00  -2.480E+00   3.231E-26
IY=  9  -1.316E+00  -2.276E+00  -3.104E+00  -3.344E+00  -3.255E+00  -2.947E+00  -2.512E+00   2.908E-26
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IY=  8  -2.136E+00  -3.545E+00  -4.326E+00  -4.190E+00  -3.642E+00  -3.071E+00  -2.567E+00   2.908E-26
IY=  7  -3.940E+00  -6.458E+00  -6.646E+00  -5.563E+00  -4.215E+00  -3.288E+00  -2.672E+00   2.908E-26
IY=  6  -7.418E+00  -1.332E+01  -1.051E+01  -7.390E+00  -4.870E+00  -3.529E+00  -2.780E+00   2.585E-26
IY=  5  -1.600E+01  -3.647E+01  -1.718E+01  -9.706E+00  -5.575E+00  -3.777E+00  -2.886E+00   3.231E-26
IY=  4  -1.761E+01  -4.056E+01  -1.890E+01  -1.046E+01  -5.858E+00  -3.901E+00  -2.960E+00   3.554E-26
IY=  3  -1.195E+01  -2.960E+01  -1.459E+01  -8.999E+00  -5.525E+00  -3.827E+00  -2.965E+00   1.616E-26
IY=  2  -6.526E+00  -1.131E+01  -9.500E+00  -7.135E+00  -4.964E+00  -3.699E+00  -2.974E+00   4.847E-26
IY=  1  -3.284E+00  -5.127E+00  -5.780E+00  -5.289E+00  -4.327E+00  -3.509E+00  -2.948E+00   4.847E-26
 IX=       1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -2.906E-01  -2.855E-01  -2.738E-01  -2.524E-01  -2.219E-01  -1.851E-01  -1.502E-01  -1.186E-01  -1.116E-01
IY= 21  -4.555E-01  -4.541E-01  -4.499E-01  -4.411E-01  -4.269E-01  -4.054E-01  -3.777E-01  -3.404E-01  -3.494E-01
IY= 20  -5.779E-01  -5.780E-01  -5.775E-01  -5.749E-01  -5.682E-01  -5.517E-01  -5.222E-01  -4.728E-01  -4.939E-01
IY= 19  -7.981E-01  -7.997E-01  -8.019E-01  -8.032E-01  -7.994E-01  -7.792E-01  -7.343E-01  -6.543E-01  -6.848E-01
IY= 18  -1.453E+00  -1.458E+00  -1.467E+00  -1.477E+00  -1.476E+00  -1.432E+00  -1.313E+00  -1.077E+00  -1.032E+00
IY= 17  -1.781E+00  -1.788E+00  -1.800E+00  -1.814E+00  -1.816E+00  -1.769E+00  -1.625E+00  -1.275E+00  -1.009E+00
IY= 16  -2.495E+00  -2.500E+00  -2.516E+00  -2.536E+00  -2.543E+00  -2.506E+00  -2.384E+00  -1.987E+00  -5.086E-01
IY= 15  -2.502E+00  -2.525E+00  -2.580E+00  -2.653E+00  -2.714E+00  -2.701E+00  -2.500E+00  -1.841E+00  -6.104E-01
IY= 14  -2.600E+00  -2.647E+00  -2.739E+00  -2.853E+00  -2.940E+00  -2.916E+00  -2.621E+00  -1.790E+00  -5.266E-01
IY= 13  -2.065E+00  -2.081E+00  -2.133E+00  -2.228E+00  -2.302E+00  -2.231E+00  -1.791E+00  -9.119E-01  -4.207E-01
IY= 12  -1.135E+00  -1.144E+00  -1.184E+00  -1.278E+00  -1.364E+00  -1.332E+00  -8.364E-01  -3.121E-03  -3.428E-01
IY= 11  -6.301E-09  -6.551E-09  -1.051E-08  -1.152E-08  -1.645E-08  -1.527E-08  -8.007E-09  -6.122E-11  -2.787E-01
IY= 10  -1.723E+00  -1.674E+00  -1.524E+00  -1.243E+00  -9.687E-01  -7.317E-01  -5.452E-01  -3.120E-01  -2.324E-01
IY=  9  -3.551E+00  -3.366E+00  -2.956E+00  -2.304E+00  -1.736E+00  -1.296E+00  -9.493E-01  -5.031E-01  -2.021E-01
IY=  8  -6.265E+00  -5.740E+00  -4.753E+00  -3.434E+00  -2.434E+00  -1.751E+00  -1.246E+00  -6.232E-01  -1.762E-01
IY=  7  -1.110E+01  -9.667E+00  -7.233E+00  -4.636E+00  -2.996E+00  -2.031E+00  -1.392E+00  -6.609E-01  -1.525E-01
IY=  6  -2.059E+01  -1.706E+01  -1.050E+01  -5.619E+00  -3.242E+00  -2.069E+00  -1.360E+00  -6.143E-01  -1.305E-01
IY=  5  -3.797E+01  -3.150E+01  -1.305E+01  -5.627E+00  -2.990E+00  -1.876E+00  -1.215E+00  -5.319E-01  -1.119E-01
IY=  4  -9.865E+00  -7.924E+00  -4.665E+00  -2.613E+00  -1.816E+00  -1.352E+00  -9.263E-01  -4.055E-01  -9.086E-02
IY=  3   1.885E+01   1.441E+01   6.230E+00   1.536E+00  -1.720E-01  -6.387E-01  -5.587E-01  -2.618E-01  -6.798E-02
IY=  2   3.834E+01   3.021E+01   9.599E+00   2.463E+00   2.602E-01  -3.816E-01  -4.127E-01  -2.062E-01  -5.739E-02
IY=  1   1.210E+01   8.787E+00   4.846E+00   1.889E+00   5.352E-01  -1.665E-02  -1.353E-01  -8.209E-02  -2.858E-02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -1.076E+00  -1.044E+00  -9.677E-01  -8.277E-01  -6.335E-01  -4.082E-01  -2.131E-01  -6.679E-02  -1.121E-08
IY= 22  -6.599E-01  -6.422E-01  -5.993E-01  -5.168E-01  -3.948E-01  -2.431E-01  -1.033E-01   4.873E-03   6.076E-02
IY= 21  -4.305E-01  -4.169E-01  -3.843E-01  -3.215E-01  -2.283E-01  -1.106E-01  -3.073E-03   7.626E-02   1.233E-01
IY= 20  -3.111E-01  -2.994E-01  -2.716E-01  -2.178E-01  -1.383E-01  -3.764E-02   5.267E-02   1.158E-01   1.604E-01
IY= 19  -4.322E-01  -4.209E-01  -3.930E-01  -3.376E-01  -2.543E-01  -1.439E-01  -3.756E-02   5.004E-02   1.074E-01
IY= 18  -9.599E-01  -9.479E-01  -9.172E-01  -8.542E-01  -7.545E-01  -6.068E-01  -4.329E-01  -2.149E-01  -4.964E-02
IY= 17  -1.793E+00  -1.779E+00  -1.743E+00  -1.668E+00  -1.548E+00  -1.353E+00  -1.077E+00  -6.056E-01  -1.642E-01
IY= 16  -7.527E-07  -7.519E-07  -1.125E-06  -1.112E-06  -1.442E-06  -1.315E-06  -1.063E-06  -5.623E-07   3.509E-01
IY= 15   5.426E-10   5.936E-10   1.050E-09   1.269E-09   1.930E-09   1.935E-09   1.736E-09   9.440E-10   8.657E-01
IY= 14   1.351E+00   1.658E+00   1.974E+00   2.162E+00   2.230E+00   2.183E+00   1.991E+00   1.466E+00   9.072E-01
IY= 13   2.415E+00   2.634E+00   2.862E+00   2.985E+00   2.997E+00   2.872E+00   2.567E+00   1.865E+00   9.214E-01
IY= 12   3.222E+00   3.312E+00   3.406E+00   3.448E+00   3.432E+00   3.301E+00   2.942E+00   1.868E+00   9.218E-01
IY= 11   5.174E+00   4.320E+00   3.507E+00   2.479E+00   1.526E+00   2.851E-01  -8.163E-01  -1.076E+00   9.130E-01
IY= 10   4.738E+00   3.812E+00   3.025E+00   2.091E+00   1.257E+00   1.404E-01  -7.796E-01  -8.628E-01   9.027E-01
IY=  9   3.959E+00   2.982E+00   2.326E+00   1.653E+00   1.080E+00   2.097E-01  -4.807E-01  -5.274E-01   8.920E-01
IY=  8   2.463E+00   1.508E+00   1.231E+00   1.109E+00   9.859E-01   4.756E-01  -6.302E-03  -1.397E-01   8.813E-01
IY=  7  -8.593E-01  -1.516E+00  -6.620E-01   3.436E-01   9.011E-01   7.935E-01   4.756E-01   1.744E-01   8.716E-01
IY=  6  -8.292E+00  -7.571E+00  -3.625E+00  -6.435E-01   7.798E-01   1.026E+00   7.717E-01   3.420E-01   8.638E-01
IY=  5  -8.640E-05  -1.800E-04  -8.426E+00  -1.838E+00   6.618E-01   1.221E+00   9.763E-01   4.392E-01   8.562E-01
IY=  4   3.096E-07  -1.487E-04  -9.844E+00  -2.091E+00   7.712E-01   1.400E+00   1.105E+00   4.910E-01   8.489E-01
IY=  3  -2.372E-05  -4.653E-05  -5.578E+00  -8.275E-01   1.126E+00   1.547E+00   1.169E+00   5.109E-01   8.450E-01
IY=  2  -2.944E+00  -3.553E+00  -1.237E+00   8.366E-01   1.821E+00   1.801E+00   1.259E+00   5.343E-01   8.344E-01
IY=  1   3.211E+00   2.410E+00   2.367E+00   2.502E+00   2.532E+00   2.046E+00   1.340E+00   5.561E-01   8.200E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   3.574E-01   3.570E-01   3.550E-01   3.449E-01   3.190E-01   2.697E-01   2.110E-01   1.545E-01   1.384E-01
IY= 22   2.578E-01   2.574E-01   2.558E-01   2.505E-01   2.379E-01   2.127E-01   1.791E-01   1.420E-01   1.333E-01
IY= 21   1.969E-01   1.967E-01   1.962E-01   1.937E-01   1.867E-01   1.706E-01   1.475E-01   1.206E-01   1.178E-01
IY= 20   1.711E-01   1.714E-01   1.718E-01   1.712E-01   1.674E-01   1.558E-01   1.375E-01   1.146E-01   1.154E-01
IY= 19   2.965E-01   2.990E-01   3.020E-01   3.037E-01   2.998E-01   2.808E-01   2.458E-01   1.926E-01   1.827E-01
IY= 18   5.057E-01   5.271E-01   5.391E-01   5.408E-01   5.277E-01   4.869E-01   4.248E-01   3.262E-01   3.160E-01
IY= 17   7.825E-01   7.927E-01   8.151E-01   8.393E-01   8.561E-01   8.550E-01   8.343E-01   7.342E-01   7.955E-01
IY= 16   3.523E-02   3.561E-02   3.663E-02   3.808E-02   3.947E-02   3.962E-02   3.617E-02   2.286E-02   3.446E-03
IY= 15   3.659E-02   3.752E-02   3.960E-02   4.247E-02   4.524E-02   4.587E-02   3.991E-02   2.087E-02   7.754E-03
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IY= 14   5.548E-02   5.886E-02   6.666E-02   7.281E-02   7.528E-02   7.300E-02   6.181E-02   2.517E-02   7.588E-03
IY= 13   8.694E-02   9.256E-02   1.042E-01   1.133E-01   1.145E-01   1.015E-01   7.326E-02   2.351E-02   7.244E-03
IY= 12   5.929E-02   6.235E-02   6.564E-02   6.712E-02   6.655E-02   6.203E-02   5.024E-02   2.217E-02   6.924E-03
IY= 11   1.486E-01   1.105E-01   8.735E-02   6.746E-02   5.708E-02   4.887E-02   4.631E-02   1.313E-02   6.610E-03
IY= 10   4.380E-01   2.747E-01   1.780E-01   1.065E-01   6.918E-02   4.547E-02   3.653E-02   6.625E-03   6.365E-03
IY=  9   8.477E-01   4.711E-01   2.597E-01   1.244E-01   6.601E-02   3.572E-02   2.466E-02   4.515E-03   6.161E-03
IY=  8   1.725E+00   8.764E-01   4.171E-01   1.597E-01   6.671E-02   2.764E-02   1.274E-02   3.381E-03   5.976E-03
IY=  7   3.721E+00   1.795E+00   7.577E-01   2.411E-01   7.987E-02   2.531E-02   9.342E-03   3.417E-03   5.814E-03
IY=  6   8.391E+00   4.114E+00   1.557E+00   3.948E-01   1.109E-01   2.832E-02   9.353E-03   3.477E-03   5.687E-03
IY=  5   1.449E+01   5.905E+00   2.598E+00   5.941E-01   1.607E-01   3.642E-02   1.082E-02   3.246E-03   5.570E-03
IY=  4   1.306E+01   5.585E+00   2.706E+00   6.549E-01   1.887E-01   4.297E-02   1.164E-02   2.817E-03   5.458E-03
IY=  3   7.263E+00   5.079E+00   2.400E+00   6.164E-01   1.710E-01   4.181E-02   1.122E-02   2.552E-03   5.397E-03
IY=  2   3.643E+00   2.928E+00   1.386E+00   4.393E-01   1.450E-01   3.753E-02   1.064E-02   2.483E-03   5.262E-03
IY=  1   1.149E-01   1.268E-01   1.844E-01   1.917E-01   1.563E-01   1.071E-01   6.978E-02   9.455E-03   5.094E-03
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   5.364E-02   5.355E-02   5.303E-02   5.049E-02   4.428E-02   3.364E-02   2.258E-02   1.350E-02   1.064E-02
IY= 22   2.983E-02   2.972E-02   2.934E-02   2.816E-02   2.558E-02   2.102E-02   1.566E-02   1.051E-02   8.953E-03
IY= 21   1.923E-02   1.917E-02   1.900E-02   1.844E-02   1.715E-02   1.459E-02   1.134E-02   8.050E-03   7.347E-03
IY= 20   1.482E-02   1.483E-02   1.482E-02   1.462E-02   1.392E-02   1.223E-02   9.871E-03   7.307E-03   7.041E-03
IY= 19   3.517E-02   3.578E-02   3.654E-02   3.696E-02   3.626E-02   3.274E-02   2.658E-02   1.788E-02   1.545E-02
IY= 18   8.844E-02   9.537E-02   9.864E-02   9.800E-02   9.330E-02   8.232E-02   6.748E-02   4.524E-02   4.124E-02
IY= 17   2.487E-01   2.513E-01   2.584E-01   2.651E-01   2.679E-01   2.658E-01   2.664E-01   2.383E-01   2.615E-01
IY= 16   5.933E-03   6.028E-03   6.288E-03   6.666E-03   7.034E-03   7.076E-03   6.172E-03   3.924E-03   2.916E-04
IY= 15   6.280E-03   6.521E-03   7.070E-03   7.852E-03   8.632E-03   8.813E-03   7.153E-03   3.424E-03   9.842E-04
IY= 14   1.191E-02   1.321E-02   1.651E-02   1.906E-02   2.004E-02   1.960E-02   1.675E-02   5.486E-03   9.529E-04
IY= 13   2.792E-02   3.137E-02   3.897E-02   4.453E-02   4.472E-02   3.825E-02   2.655E-02   4.952E-03   8.888E-04
IY= 12   1.794E-02   1.934E-02   2.089E-02   2.160E-02   2.133E-02   1.919E-02   1.399E-02   4.317E-03   8.306E-04
IY= 11   8.652E-02   5.552E-02   3.901E-02   2.647E-02   2.060E-02   1.632E-02   1.506E-02   2.169E-03   7.747E-04
IY= 10   4.173E-01   2.403E-01   1.363E-01   7.097E-02   4.625E-02   3.816E-02   4.336E-02   7.406E-04   7.321E-04
IY=  9   1.203E+00   5.929E-01   2.671E-01   1.009E-01   5.047E-02   3.365E-02   3.201E-02   4.167E-04   6.971E-04
IY=  8   4.401E+00   1.873E+00   6.522E-01   1.637E-01   5.401E-02   2.356E-02   1.249E-02   2.700E-04   6.660E-04
IY=  7   2.007E+01   7.967E+00   2.181E+00   3.606E-01   7.197E-02   1.857E-02   6.159E-03   2.744E-04   6.391E-04
IY=  6   9.835E+01   4.475E+01   1.049E+01   9.621E-01   1.232E-01   1.883E-02   4.307E-03   2.816E-04   6.182E-04
IY=  5   2.903E+02   9.744E+01   3.048E+01   2.252E+00   2.354E-01   2.403E-02   4.059E-03   2.540E-04   5.992E-04
IY=  4   3.109E+02   9.993E+01   3.407E+01   2.793E+00   3.161E-01   2.884E-02   4.117E-03   2.054E-04   5.813E-04
IY=  3   1.380E+02   7.945E+01   2.383E+01   1.958E+00   2.397E-01   2.664E-02   3.843E-03   1.771E-04   5.716E-04
IY=  2   4.529E+01   3.134E+01   8.694E+00   8.582E-01   1.354E-01   2.038E-02   3.471E-03   1.700E-04   5.503E-04
IY=  1   5.236E-02   6.071E-02   1.064E-01   1.129E-01   8.309E-02   4.714E-02   2.478E-02   1.249E-03   5.241E-04
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   2.990E+05   2.989E+05   2.989E+05   2.987E+05   2.984E+05   2.979E+05   2.975E+05   2.970E+05   2.968E+05
IY= 22   2.972E+05   2.972E+05   2.973E+05   2.974E+05   2.974E+05   2.973E+05   2.971E+05   2.969E+05   2.967E+05
IY= 21   2.971E+05   2.971E+05   2.972E+05   2.973E+05   2.973E+05   2.971E+05   2.969E+05   2.967E+05   2.966E+05
IY= 20   2.969E+05   2.969E+05   2.970E+05   2.970E+05   2.970E+05   2.969E+05   2.967E+05   2.965E+05   2.964E+05
IY= 19   2.967E+05   2.967E+05   2.968E+05   2.968E+05   2.968E+05   2.967E+05   2.965E+05   2.964E+05   2.964E+05
IY= 18   2.967E+05   2.967E+05   2.968E+05   2.968E+05   2.967E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05
IY= 17   2.966E+05   2.966E+05   2.967E+05   2.967E+05   2.967E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05
IY= 16   2.965E+05   2.966E+05   2.966E+05   2.967E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05
IY= 15   2.965E+05   2.965E+05   2.966E+05   2.966E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05
IY= 14   2.965E+05   2.965E+05   2.965E+05   2.966E+05   2.965E+05   2.965E+05   2.963E+05   2.962E+05   2.962E+05
IY= 13   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.965E+05   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05
IY= 11   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 10   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  9   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  8   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  7   2.960E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  6   2.958E+05   2.958E+05   2.960E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  5   2.948E+05   2.946E+05   2.958E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  4   2.952E+05   2.947E+05   2.958E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  3   2.949E+05   2.949E+05   2.959E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  2   2.960E+05   2.960E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY=  1   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.143E-01   2.142E-01   2.138E-01   2.120E-01   2.068E-01   1.947E-01   1.775E-01   1.591E-01   1.621E-01
IY= 22   2.005E-01   2.006E-01   2.008E-01   2.005E-01   1.991E-01   1.938E-01   1.844E-01   1.726E-01   1.785E-01
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IY= 21   1.814E-01   1.817E-01   1.823E-01   1.830E-01   1.829E-01   1.796E-01   1.727E-01   1.627E-01   1.701E-01
IY= 20   1.779E-01   1.783E-01   1.792E-01   1.805E-01   1.811E-01   1.787E-01   1.723E-01   1.618E-01   1.702E-01
IY= 19   2.250E-01   2.249E-01   2.246E-01   2.246E-01   2.231E-01   2.167E-01   2.045E-01   1.868E-01   1.945E-01
IY= 18   2.603E-01   2.622E-01   2.652E-01   2.686E-01   2.686E-01   2.592E-01   2.407E-01   2.117E-01   2.179E-01
IY= 17   2.216E-01   2.250E-01   2.314E-01   2.391E-01   2.462E-01   2.476E-01   2.352E-01   2.036E-01   2.177E-01
IY= 16   1.883E-02   1.893E-02   1.920E-02   1.958E-02   1.993E-02   1.997E-02   1.908E-02   1.199E-02   3.665E-03
IY= 15   1.919E-02   1.943E-02   1.996E-02   2.067E-02   2.134E-02   2.149E-02   2.004E-02   1.145E-02   5.497E-03
IY= 14   2.326E-02   2.362E-02   2.423E-02   2.503E-02   2.545E-02   2.447E-02   2.053E-02   1.040E-02   5.438E-03
IY= 13   2.437E-02   2.458E-02   2.506E-02   2.596E-02   2.637E-02   2.423E-02   1.819E-02   1.005E-02   5.314E-03
IY= 12   1.764E-02   1.809E-02   1.856E-02   1.877E-02   1.869E-02   1.804E-02   1.624E-02   1.025E-02   5.195E-03
IY= 11   2.296E-02   1.981E-02   1.761E-02   1.547E-02   1.423E-02   1.317E-02   1.282E-02   7.150E-03   5.076E-03
IY= 10   4.138E-02   2.827E-02   2.092E-02   1.439E-02   9.312E-03   4.877E-03   2.770E-03   5.334E-03   4.981E-03
IY=  9   5.377E-02   3.369E-02   2.273E-02   1.381E-02   7.772E-03   3.413E-03   1.710E-03   4.403E-03   4.900E-03
IY=  8   6.083E-02   3.692E-02   2.401E-02   1.402E-02   7.416E-03   2.917E-03   1.169E-03   3.811E-03   4.826E-03
IY=  7   6.207E-02   3.642E-02   2.369E-02   1.450E-02   7.978E-03   3.105E-03   1.275E-03   3.831E-03   4.761E-03
IY=  6   6.443E-02   3.404E-02   2.079E-02   1.458E-02   8.985E-03   3.833E-03   1.828E-03   3.864E-03   4.708E-03
IY=  5   6.507E-02   3.221E-02   1.992E-02   1.411E-02   9.870E-03   4.968E-03   2.595E-03   3.733E-03   4.659E-03
IY=  4   4.939E-02   2.810E-02   1.935E-02   1.382E-02   1.014E-02   5.763E-03   2.962E-03   3.478E-03   4.612E-03
IY=  3   3.441E-02   2.922E-02   2.175E-02   1.747E-02   1.098E-02   5.905E-03   2.951E-03   3.311E-03   4.587E-03
IY=  2   2.637E-02   2.462E-02   1.988E-02   2.024E-02   1.398E-02   6.221E-03   2.934E-03   3.266E-03   4.529E-03
IY=  1   2.270E-02   2.385E-02   2.875E-02   2.932E-02   2.648E-02   2.192E-02   1.769E-02   6.441E-03   4.456E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   2.978E+02   2.978E+02   2.977E+02   2.975E+02   2.972E+02   2.967E+02   2.963E+02   2.959E+02   2.957E+02
IY= 22   2.960E+02   2.961E+02   2.961E+02   2.962E+02   2.962E+02   2.961E+02   2.960E+02   2.957E+02   2.956E+02
IY= 21   2.959E+02   2.959E+02   2.960E+02   2.961E+02   2.961E+02   2.959E+02   2.957E+02   2.955E+02   2.954E+02
IY= 20   2.957E+02   2.957E+02   2.958E+02   2.958E+02   2.958E+02   2.957E+02   2.955E+02   2.953E+02   2.953E+02
IY= 19   2.955E+02   2.956E+02   2.956E+02   2.956E+02   2.956E+02   2.955E+02   2.954E+02   2.952E+02   2.952E+02
IY= 18   2.955E+02   2.956E+02   2.956E+02   2.956E+02   2.956E+02   2.955E+02   2.953E+02   2.952E+02   2.952E+02
IY= 17   2.954E+02   2.955E+02   2.955E+02   2.955E+02   2.955E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02
IY= 16   2.954E+02   2.954E+02   2.954E+02   2.955E+02   2.955E+02   2.954E+02   2.952E+02   2.951E+02   2.951E+02
IY= 15   2.953E+02   2.954E+02   2.954E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02
IY= 14   2.953E+02   2.953E+02   2.954E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.950E+02
IY= 13   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.953E+02   2.953E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  7   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  6   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  5   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  4   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  3   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  2   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  1   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.190E+00   1.190E+00   1.190E+00   1.191E+00   1.192E+00   1.194E+00   1.196E+00   1.197E+00   1.198E+00
IY= 22   1.197E+00   1.197E+00   1.196E+00   1.196E+00   1.196E+00   1.196E+00   1.197E+00   1.198E+00   1.199E+00
IY= 21   1.197E+00   1.197E+00   1.197E+00   1.196E+00   1.197E+00   1.197E+00   1.198E+00   1.199E+00   1.199E+00
IY= 20   1.198E+00   1.198E+00   1.198E+00   1.198E+00   1.198E+00   1.198E+00   1.199E+00   1.200E+00   1.200E+00
IY= 19   1.199E+00   1.199E+00   1.198E+00   1.198E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00
IY= 18   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
IY= 17   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
IY= 16   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.201E+00
IY= 15   1.200E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 14   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 12   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 11   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 10   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  9   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  8   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY=  7   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  6   1.195E+00   1.196E+00   1.198E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY=  5   1.181E+00   1.178E+00   1.196E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY=  4   1.187E+00   1.180E+00   1.196E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
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IY=  3   1.183E+00   1.182E+00   1.197E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY=  2   1.198E+00   1.198E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY=  1   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
 IX=      1           2           3           4           5           6           7           8           9

TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    20 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 20, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -7.086E-01  -7.260E-01  -7.536E-01  -7.913E-01  -8.261E-01  -8.512E-01  -8.623E-01  -8.356E-01  -8.595E-01
IY= 22  -8.073E-01  -8.022E-01  -8.100E-01  -8.220E-01  -8.348E-01  -8.455E-01  -8.506E-01  -8.270E-01  -8.438E-01
IY= 21  -8.872E-01  -8.851E-01  -8.857E-01  -8.863E-01  -8.865E-01  -8.851E-01  -8.826E-01  -8.569E-01  -8.720E-01
IY= 20  -9.152E-01  -9.154E-01  -9.151E-01  -9.144E-01  -9.133E-01  -9.113E-01  -9.092E-01  -8.860E-01  -9.002E-01
IY= 19  -9.249E-01  -9.241E-01  -9.244E-01  -9.251E-01  -9.267E-01  -9.304E-01  -9.368E-01  -9.276E-01  -9.444E-01
IY= 18  -9.156E-01  -9.130E-01  -9.137E-01  -9.152E-01  -9.196E-01  -9.327E-01  -9.634E-01  -1.009E+00  -1.098E+00
IY= 17  -9.101E-01  -9.073E-01  -9.082E-01  -9.098E-01  -9.148E-01  -9.315E-01  -9.794E-01  -1.107E+00  -1.370E+00
IY= 16  -8.979E-01  -8.976E-01  -8.972E-01  -8.974E-01  -9.000E-01  -9.167E-01  -9.805E-01  -1.252E+00  -2.599E+00
IY= 15  -2.486E+01  -2.753E+01  -3.034E+01  -3.194E+01  -3.324E+01  -3.399E+01  -3.540E+01  -2.394E+01  -5.224E+00
IY= 14  -2.994E+01  -3.115E+01  -3.247E+01  -3.341E+01  -3.415E+01  -3.434E+01  -3.416E+01  -2.691E+01  -1.791E+00
IY= 13  -3.835E+01  -3.859E+01  -3.858E+01  -3.830E+01  -3.786E+01  -3.682E+01  -3.568E+01  -2.789E+01  -1.621E+00
IY= 12  -4.472E+01  -4.509E+01  -4.511E+01  -4.417E+01  -4.255E+01  -4.007E+01  -3.780E+01  -2.896E+01  -1.446E+00
IY= 11  -9.198E+01  -8.647E+01  -6.571E+01  -5.824E+01  -7.015E+01  -7.206E+01  -2.702E+01   7.684E+01  -1.323E+00
IY= 10  -1.330E+02  -1.380E+02  -1.470E+02  -1.641E+02  -1.637E+02  -1.302E+02  -8.222E+01  -4.967E-02  -1.251E+00
IY=  9  -1.672E+02  -1.737E+02  -1.848E+02  -1.883E+02  -1.682E+02  -1.272E+02  -1.004E+02  -3.883E+01  -1.204E+00
IY=  8  -2.245E+02  -2.256E+02  -2.324E+02  -2.048E+02  -1.637E+02  -1.314E+02  -1.086E+02  -5.224E+01  -1.167E+00
IY=  7  -3.729E+02  -3.264E+02  -3.523E+02  -2.370E+02  -1.747E+02  -1.401E+02  -1.084E+02  -5.195E+01  -1.137E+00
IY=  6  -4.542E+03  -3.123E+03  -8.642E+02  -2.827E+02  -1.896E+02  -1.493E+02  -1.067E+02  -4.888E+01  -1.114E+00
IY=  5   2.505E+04   2.025E+04  -3.129E+03  -2.520E+02  -2.013E+02  -1.648E+02  -1.195E+02  -5.245E+01  -1.094E+00
IY=  4   2.889E+04   2.287E+04  -4.066E+03  -2.982E+02  -2.159E+02  -1.911E+02  -1.489E+02  -5.504E+01  -1.075E+00
IY=  3   2.224E+04   1.829E+04  -2.459E+03  -2.565E+02  -2.152E+02  -2.184E+02  -1.694E+02  -3.752E+01  -1.065E+00
IY=  2  -2.433E+03  -1.780E+03  -5.716E+02  -2.687E+02  -2.176E+02  -2.272E+02  -1.758E+02  -9.311E+00  -1.054E+00
IY=  1  -1.456E+02  -1.374E+02  -1.696E+02  -1.684E+02  -1.821E+02  -2.299E+02  -1.954E+02   1.529E+01  -1.047E+00
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -1.390E-03  -5.891E-03  -1.704E-02  -3.115E-02  -4.751E-02  -5.890E-02  -6.495E-02   2.528E-03
IY= 22   1.048E-02   1.938E-02   2.845E-02   3.094E-02   2.427E-02   7.903E-03  -1.474E-02   2.864E-02
IY= 21   3.750E-03   6.714E-03   8.420E-03   5.591E-03  -5.271E-03  -2.130E-02  -3.857E-02   1.724E-02
IY= 20  -9.395E-04  -2.218E-03  -5.711E-03  -1.177E-02  -2.341E-02  -3.678E-02  -4.968E-02   1.286E-02
IY= 19   2.396E-03   4.715E-03   7.803E-03   1.025E-02   1.188E-02   9.084E-03  -3.391E-03   4.501E-02
IY= 18   8.732E-03   1.739E-02   3.164E-02   4.925E-02   7.952E-02   1.138E-01   1.334E-01   1.725E-01
IY= 17   1.226E-02   2.362E-02   4.370E-02   7.134E-02   1.254E-01   2.020E-01   2.881E-01   4.193E-01
IY= 16   4.728E-03   1.335E-02   3.465E-02   7.110E-02   1.543E-01   2.984E-01   5.519E-01   1.135E+00
IY= 15  -1.780E+00  -2.759E+00  -3.514E+00  -3.931E+00  -4.297E+00  -4.600E+00  -5.039E+00  -4.278E+00
IY= 14  -5.442E-01  -9.774E-01  -1.490E+00  -1.874E+00  -2.228E+00  -2.419E+00  -2.526E+00  -2.955E-08
IY= 13  -1.060E-01  -3.343E-01  -8.048E-01  -1.331E+00  -1.863E+00  -2.121E+00  -2.248E+00  -8.587E-18
IY= 12   3.149E-01   2.433E-01  -1.715E-01  -6.538E-01  -1.338E+00  -1.909E+00  -2.246E+00   1.959E-15
IY= 11  -3.650E-01  -1.020E+00   3.934E+00   1.277E+01   1.712E+01   1.767E+01   1.509E+01   1.180E-07
IY= 10   1.704E-01   1.288E-01   1.692E+00   6.846E+00   1.048E+01   8.486E+00   4.750E+00   1.630E-08
IY=  9  -1.351E-01  -4.355E-01  -5.672E-01   1.430E+00   4.438E+00   3.069E-01  -3.011E+00   5.038E-12
IY=  8  -1.812E+00  -2.933E+00  -4.387E+00  -3.429E+00  -2.405E+00  -6.145E+00  -6.368E+00   1.814E-15
IY=  7  -5.913E+00  -7.098E+00  -1.089E+01  -9.135E+00  -8.721E+00  -9.824E+00  -7.669E+00   4.655E-15
IY=  6  -1.973E+01  -3.309E+01  -2.167E+01  -1.393E+01  -1.187E+01  -1.104E+01  -7.973E+00   1.165E-14
IY=  5   9.416E+00   8.179E+01  -1.215E+01  -1.519E+01  -1.313E+01  -1.164E+01  -8.083E+00   3.638E-14
IY=  4   1.181E+01   9.005E+01  -1.495E+01  -1.584E+01  -1.238E+01  -1.057E+01  -6.837E+00   1.341E-11
IY=  3   7.767E+00   7.474E+01  -8.154E+00  -1.268E+01  -8.732E+00  -3.361E+00  -2.111E+00   4.850E-10
IY=  2  -1.514E+01  -2.505E+01  -1.561E+01  -1.021E+01  -6.508E+00  -7.390E-01   8.368E-01   1.661E-08
IY=  1  -4.090E+00  -4.696E+00  -6.454E+00  -5.789E+00  -4.401E+00  -4.187E+00   6.078E+00   8.192E-08
 IX=      1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -4.474E-01  -4.328E-01  -4.007E-01  -3.466E-01  -2.769E-01  -2.022E-01  -1.409E-01  -9.410E-02  -8.108E-02
IY= 21  -3.582E-01  -3.520E-01  -3.370E-01  -3.111E-01  -2.790E-01  -2.479E-01  -2.228E-01  -1.965E-01  -2.088E-01
IY= 20  -2.770E-01  -2.759E-01  -2.729E-01  -2.688E-01  -2.658E-01  -2.647E-01  -2.591E-01  -2.389E-01  -2.657E-01
IY= 19  -2.140E-01  -2.162E-01  -2.221E-01  -2.344E-01  -2.529E-01  -2.747E-01  -2.863E-01  -2.745E-01  -3.159E-01
IY= 18  -1.207E-01  -1.249E-01  -1.366E-01  -1.608E-01  -1.997E-01  -2.571E-01  -3.220E-01  -3.751E-01  -4.852E-01
IY= 17  -8.036E-02  -8.504E-02  -9.649E-02  -1.194E-01  -1.573E-01  -2.197E-01  -3.096E-01  -4.344E-01  -6.830E-01
IY= 16  -3.306E-02  -4.001E-02  -4.914E-02  -6.572E-02  -9.334E-02  -1.438E-01  -2.384E-01  -4.261E-01  -1.157E+00
IY= 15  -2.745E-12  -2.798E-12  -4.570E-12  -5.604E-12  -1.141E-11  -3.578E-11  -5.362E-11  -2.147E-07  -2.379E+00
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IY= 14  -1.933E+00  -1.038E+00  -5.072E-01  -2.695E-01  -1.700E-01  -1.387E-01  -2.059E-01  -6.658E-01   6.389E-02
IY= 13  -2.729E+00  -1.607E+00  -8.959E-01  -4.896E-01  -2.611E-01  -1.549E-01  -1.999E-01  -2.427E-01   1.584E-01
IY= 12  -2.132E+00  -1.281E+00  -8.190E-01  -5.885E-01  -2.808E-01  -5.120E-02  -9.715E-02  -1.503E-01   1.764E-01
IY= 11  -4.858E-09  -3.050E-09  -2.751E-09  -1.875E-09  -1.091E-09  -1.608E-10  -2.433E-10  -1.633E-10   1.599E-01
IY= 10  -2.454E+00  -3.144E+00  -5.149E+00  -8.362E+00  -8.392E+00  -5.595E+00  -3.868E+00  -5.177E+00   1.387E-01
IY=  9  -2.753E+00  -3.329E+00  -4.711E+00  -6.291E+00  -7.601E+00  -4.654E+00  -3.440E+00  -5.698E+00   1.220E-01
IY=  8  -3.793E+00  -4.374E+00  -5.258E+00  -5.547E+00  -6.404E+00  -3.745E+00  -2.652E+00  -3.941E+00   1.069E-01
IY=  7  -7.489E+00  -7.231E+00  -7.792E+00  -6.123E+00  -5.611E+00  -2.476E+00  -7.854E-01  -1.449E+00   9.256E-02
IY=  6  -1.345E+01  -1.044E+01  -1.459E+01  -6.090E+00  -4.095E+00  -1.062E+00   1.147E+00   1.547E+00   7.917E-02
IY=  5   8.425E+01   7.111E+01  -2.415E+01  -2.532E+00  -2.854E+00  -1.498E+00   3.372E-01   2.558E+00   6.770E-02
IY=  4   7.482E+00   5.122E+00  -9.136E+00  -3.501E+00  -2.443E+00  -1.852E+00   4.874E-01   5.033E+00   5.471E-02
IY=  3  -1.633E+01  -1.129E+01   1.205E+01   1.842E-01  -1.719E+00  -2.124E+00   2.118E+00   7.788E+00   4.080E-02
IY=  2  -8.554E+01  -7.320E+01   2.033E+01  -5.171E-01  -1.244E+00  -1.612E+00   1.388E+00   8.191E+00   3.412E-02
IY=  1   4.597E-01  -9.007E-01   8.650E+00   3.141E+00   9.841E-01  -3.907E-01   1.251E-01   7.067E+00   1.675E-02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -1.779E+00  -1.709E+00  -1.553E+00  -1.291E+00  -9.625E-01  -6.080E-01  -3.177E-01  -1.040E-01  -3.535E-09
IY= 22  -8.961E-01  -8.661E-01  -7.961E-01  -6.689E-01  -4.928E-01  -2.891E-01  -1.131E-01   1.568E-02   8.060E-02
IY= 21  -5.059E-01  -4.891E-01  -4.490E-01  -3.737E-01  -2.670E-01  -1.405E-01  -3.135E-02   4.567E-02   8.787E-02
IY= 20  -2.997E-01  -2.899E-01  -2.461E-01  -2.208E-01  -1.563E-01  -7.851E-02  -1.124E-02   3.559E-02   6.253E-02
IY= 19  -1.940E-01  -1.894E-01  -1.785E-01  -1.571E-01  -1.253E-01  -8.384E-02  -4.438E-02  -1.145E-02   2.806E-03
IY= 18  -1.139E-01  -1.127E-01  -1.101E-01  -1.042E-01  -9.375E-02  -7.669E-02  -5.690E-02  -3.443E-02  -2.319E-02
IY= 17  -6.198E-02  -6.238E-02  -6.336E-02  -6.441E-02  -6.448E-02  -6.208E-02  -5.767E-02  -4.437E-02  -4.179E-02
IY= 16   2.791E-02   2.557E-02   2.190E-02   1.650E-02   8.899E-03  -3.006E-04  -1.035E-02  -1.259E-02  -6.658E-03
IY= 15   3.719E+00   3.493E+00   3.273E+00   2.916E+00   2.499E+00   1.870E+00   1.181E+00   4.342E-01   9.550E-02
IY= 14   4.413E+00   4.803E+00   4.998E+00   4.843E+00   4.426E+00   3.599E+00   2.471E+00   1.143E+00   7.574E-01
IY= 13   5.481E+00   6.141E+00   6.654E+00   6.533E+00   5.955E+00   4.848E+00   3.311E+00   1.504E+00   1.056E+00
IY= 12   7.124E+00   7.699E+00   8.132E+00   8.046E+00   7.441E+00   5.971E+00   3.936E+00   1.745E+00   1.069E+00
IY= 11   1.003E+01   8.404E+00   2.491E+00  -4.479E+00  -9.682E+00  -1.231E+01  -1.349E+01  -1.386E+01   1.035E+00
IY= 10   1.231E+01   1.140E+01   8.981E+00   4.889E+00  -1.049E+00  -3.880E+00  -6.124E+00  -9.941E+00   1.001E+00
IY=  9   1.362E+01   1.235E+01   1.062E+01   7.319E+00   8.935E-01  -1.309E+00  -3.896E+00  -6.938E+00   9.737E-01
IY=  8   1.482E+01   1.221E+01   9.549E+00   5.040E+00   4.776E-01  -9.899E-01  -2.611E+00  -3.930E+00   9.497E-01
IY=  7   1.820E+01   1.241E+01   8.357E+00   3.186E+00   8.380E-01  -3.941E-02  -1.014E+00  -1.252E+00   9.293E-01
IY=  6   1.007E+02   6.768E+01   7.607E+00   3.595E+00   2.217E+00   1.066E+00  -4.689E-01  -9.740E-01   9.128E-01
IY=  5   7.592E+02   7.621E+02   7.046E+01   5.636E+00   3.093E+00   8.984E-01  -1.920E+00  -2.803E+00   8.985E-01
IY=  4   7.551E+02   7.607E+02   9.156E+01   7.814E+00   3.028E+00   1.155E-02  -3.423E+00  -5.237E+00   8.857E-01
IY=  3   7.602E+02   7.613E+02   6.268E+01   7.819E+00   3.746E+00   2.283E-01  -5.965E+00  -8.616E+00   8.767E-01
IY=  2   7.298E+01   4.986E+01   1.130E+01   8.659E+00   5.888E+00   1.139E+00  -6.928E+00  -1.078E+01   8.649E-01
IY=  1   1.372E+01   1.100E+01   9.071E+00   8.272E+00   7.621E+00   5.972E+00  -3.325E+00  -1.365E+01   8.503E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.390E-01   5.498E-01   5.693E-01   5.748E-01   5.387E-01   4.450E-01   3.322E-01   2.294E-01   2.016E-01
IY= 22   3.535E-01   3.541E-01   3.537E-01   3.457E-01   3.221E-01   2.754E-01   2.189E-01   1.629E-01   1.534E-01
IY= 21   2.046E-01   2.041E-01   2.024E-01   1.969E-01   1.849E-01   1.635E-01   1.372E-01   1.099E-01   1.124E-01
IY= 20   1.129E-01   1.129E-01   1.130E-01   1.125E-01   1.104E-01   1.041E-01   9.408E-02   8.181E-02   9.034E-02
IY= 19   6.405E-02   6.468E-02   6.645E-02   6.970E-02   7.368E-02   7.650E-02   7.591E-02   7.193E-02   8.630E-02
IY= 18   5.286E-02   5.289E-02   5.472E-02   5.997E-02   6.913E-02   8.288E-02   9.955E-02   1.211E-01   1.581E-01
IY= 17   5.003E-02   4.692E-02   4.718E-02   5.262E-02   6.461E-02   8.906E-02   1.349E-01   2.436E-01   4.682E-01
IY= 16   1.332E-05   1.238E-05   1.688E-05   4.254E-05   1.483E-04   5.065E-04   1.560E-03   5.343E-03   6.086E-01
IY= 15   1.050E-01   1.070E-01   1.248E-01   1.348E-01   1.392E-01   1.399E-01   1.472E-01   1.322E-01   1.770E+00
IY= 14   2.085E-01   3.552E-01   4.004E-01   3.063E-01   1.853E-01   8.771E-02   3.895E-02   1.049E-02   4.495E-03
IY= 13   2.803E-01   3.626E-01   3.024E-01   2.440E-01   1.705E-01   1.012E-01   5.131E-02   1.533E-02   8.212E-03
IY= 12   2.541E-01   2.929E-01   3.235E-01   3.180E-01   2.793E-01   1.959E-01   1.070E-01   2.319E-02   8.389E-03
IY= 11   4.918E-01   3.570E-01   5.021E-02   4.423E-01   1.413E+00   1.969E+00   1.953E+00   1.018E+00   7.889E-03
IY= 10   1.019E+00   7.910E-01   7.647E-01   1.236E+00   2.482E+00   8.659E+00   1.447E+01   6.051E-01   7.408E-03
IY=  9   1.567E+00   1.115E+00   1.085E+00   1.329E+00   3.245E+00   1.689E+01   8.081E+00   3.526E-01   7.023E-03
IY=  8   2.724E+00   1.985E+00   2.065E+00   2.802E+00   6.917E+00   1.141E+01   2.059E+00   1.234E-01   6.697E-03
IY=  7   1.550E+01   9.067E+00   5.615E+00   5.180E+00   5.747E+00   3.320E+00   2.251E-01   1.084E-02   6.425E-03
IY=  6   2.923E+01   1.591E+01   1.779E+01   5.829E+00   2.743E+00   9.525E-01   2.097E-01   3.193E-02   6.209E-03
IY=  5   4.918E+01   4.856E+01   9.479E+00   2.467E+00   8.729E-01   4.035E-01   2.823E-01   1.212E-01   6.025E-03
IY=  4   4.964E+01   4.888E+01   6.047E+00   1.793E+00   7.706E-01   8.578E-01   1.081E+00   3.396E-01   5.861E-03
IY=  3   4.880E+01   4.826E+01   4.337E+00   1.884E+00   1.238E+00   1.992E+00   3.613E+00   6.469E-01   5.749E-03
IY=  2   5.852E+00   4.225E+00   3.917E+00   1.499E+00   1.496E+00   2.728E+00   5.781E+00   8.022E-01   5.606E-03
IY=  1   9.274E-01   6.546E-01   5.377E-01   5.051E-01   4.083E-01   2.725E-01   6.837E-02   9.750E-01   5.433E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.231E-01   1.264E-01   1.319E-01   1.312E-01   1.157E-01   8.335E-02   5.139E-02   2.789E-02   2.107E-02
IY= 22   5.941E-02   5.953E-02   5.922E-02   5.650E-02   4.945E-02   3.744E-02   2.515E-02   1.509E-02   1.261E-02
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IY= 21   2.637E-02   2.623E-02   2.574E-02   2.430E-02   2.145E-02   1.698E-02   1.233E-02   8.353E-03   8.023E-03
IY= 20   1.112E-02   1.107E-02   1.094E-02   1.057E-02   9.819E-03   8.478E-03   6.862E-03   5.352E-03   5.847E-03
IY= 19   4.779E-03   4.801E-03   4.887E-03   5.039E-03   5.184E-03   5.150E-03   4.843E-03   4.407E-03   5.555E-03
IY= 18   3.369E-03   3.336E-03   3.447E-03   3.812E-03   4.450E-03   5.385E-03   6.532E-03   8.383E-03   1.431E-02
IY= 17   3.395E-03   2.964E-03   2.874E-03   3.251E-03   4.225E-03   6.533E-03   1.209E-02   3.573E-02   1.327E-01
IY= 16   6.930E-08   6.205E-08   9.888E-08   3.954E-07   2.574E-06   1.625E-05   8.785E-05   5.566E-04   3.609E-01
IY= 15   8.431E-02   8.673E-02   1.093E-01   1.226E-01   1.287E-01   1.296E-01   1.399E-01   1.191E-01   2.961E+00
IY= 14   1.525E-01   2.621E-01   3.002E-01   2.293E-01   1.309E-01   5.790E-02   2.383E-02   1.475E-03   4.344E-04
IY= 13   2.038E-01   2.516E-01   1.812E-01   1.334E-01   8.601E-02   4.740E-02   2.120E-02   2.607E-03   1.073E-03
IY= 12   1.591E-01   1.969E-01   2.286E-01   2.228E-01   1.834E-01   1.077E-01   4.351E-02   4.620E-03   1.108E-03
IY= 11   5.210E-01   3.222E-01   1.700E-02   4.444E-01   2.537E+00   4.173E+00   4.122E+00   1.481E+00   1.010E-03
IY= 10   1.751E+00   1.466E+00   1.684E+00   3.745E+00   9.270E+00   6.048E+01   1.091E+02   6.465E-01   9.192E-04
IY=  9   3.431E+00   2.526E+00   2.587E+00   3.709E+00   1.209E+01   1.215E+02   5.559E+01   2.875E-01   8.485E-04
IY=  8   8.446E+00   6.144E+00   6.749E+00   1.097E+01   3.484E+01   7.972E+01   1.237E+01   5.954E-02   7.901E-04
IY=  7   2.016E+02   7.988E+01   3.172E+01   2.624E+01   3.043E+01   2.081E+01   1.077E+00   1.551E-03   7.425E-04
IY=  6   5.549E+03   3.602E+03   3.816E+02   3.627E+01   1.294E+01   4.359E+00   7.333E-01   7.836E-03   7.053E-04
IY=  5   5.196E+04   5.055E+04   2.635E+03   1.550E+01   3.395E+00   1.283E+00   6.730E-01   5.794E-02   6.742E-04
IY=  4   5.279E+04   5.123E+04   2.257E+03   1.269E+01   3.010E+00   3.750E+00   5.457E+00   2.719E-01   6.469E-04
IY=  3   5.109E+04   4.977E+04   1.737E+03   1.069E+01   5.411E+00   1.039E+01   2.340E+01   7.147E-01   6.284E-04
IY=  2   1.764E+03   1.374E+03   6.388E+01   6.739E+00   6.232E+00   1.307E+01   4.008E+01   9.868E-01   6.050E-04
IY=  1   1.200E+00   7.118E-01   5.300E-01   4.825E-01   3.507E-01   1.912E-01   2.403E-02   1.308E+00   5.774E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.071E+05   3.068E+05   3.062E+05   3.052E+05   3.038E+05   3.023E+05   3.008E+05   2.995E+05   2.990E+05
IY= 22   3.025E+05   3.026E+05   3.026E+05   3.025E+05   3.021E+05   3.014E+05   3.004E+05   2.994E+05   2.989E+05
IY= 21   3.009E+05   3.010E+05   3.011E+05   3.010E+05   3.006E+05   2.997E+05   2.987E+05   2.979E+05   2.977E+05
IY= 20   2.988E+05   2.989E+05   2.989E+05   2.987E+05   2.983E+05   2.978E+05   2.973E+05   2.969E+05   2.969E+05
IY= 19   2.973E+05   2.973E+05   2.972E+05   2.971E+05   2.969E+05   2.967E+05   2.965E+05   2.964E+05   2.965E+05
IY= 18   2.967E+05   2.967E+05   2.966E+05   2.966E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.964E+05
IY= 17   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.963E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.963E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.964E+05   2.964E+05   2.964E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.964E+05   2.966E+05   2.962E+05
IY= 10   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.965E+05   2.968E+05   2.962E+05
IY=  9   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.962E+05   2.963E+05   2.970E+05   2.969E+05   2.962E+05
IY=  8   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.962E+05   2.965E+05   2.969E+05   2.967E+05   2.962E+05
IY=  7   2.959E+05   2.959E+05   2.959E+05   2.961E+05   2.963E+05   2.966E+05   2.971E+05   2.968E+05   2.962E+05
IY=  6   3.354E+05   3.327E+05   2.955E+05   2.960E+05   2.963E+05   2.971E+05   2.982E+05   2.981E+05   2.962E+05
IY=  5   2.008E+06   2.008E+06   3.415E+05   2.962E+05   2.969E+05   2.986E+05   3.001E+05   2.997E+05   2.962E+05
IY=  4   2.008E+06   2.008E+06   3.498E+05   2.964E+05   2.978E+05   3.006E+05   3.025E+05   3.018E+05   2.962E+05
IY=  3   2.008E+06   2.008E+06   3.464E+05   2.967E+05   2.984E+05   3.013E+05   3.030E+05   3.043E+05   2.962E+05
IY=  2   3.401E+05   3.335E+05   2.960E+05   2.970E+05   2.991E+05   3.021E+05   3.029E+05   3.056E+05   2.962E+05
IY=  1   2.961E+05   2.964E+05   2.970E+05   2.993E+05   3.027E+05   3.055E+05   3.059E+05   3.076E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.123E-01   2.153E-01   2.212E-01   2.267E-01   2.257E-01   2.138E-01   1.933E-01   1.697E-01   1.736E-01
IY= 22   1.893E-01   1.895E-01   1.901E-01   1.904E-01   1.888E-01   1.824E-01   1.715E-01   1.583E-01   1.680E-01
IY= 21   1.428E-01   1.429E-01   1.432E-01   1.435E-01   1.435E-01   1.416E-01   1.373E-01   1.301E-01   1.418E-01
IY= 20   1.031E-01   1.037E-01   1.051E-01   1.079E-01   1.116E-01   1.151E-01   1.161E-01   1.126E-01   1.256E-01
IY= 19   7.725E-02   7.843E-02   8.132E-02   8.678E-02   9.426E-02   1.023E-01   1.071E-01   1.057E-01   1.207E-01
IY= 18   7.466E-02   7.547E-02   7.819E-02   8.490E-02   9.664E-02   1.148E-01   1.365E-01   1.575E-01   1.571E-01
IY= 17   6.636E-02   6.685E-02   6.972E-02   7.665E-02   8.894E-02   1.093E-01   1.355E-01   1.495E-01   1.486E-01
IY= 16   2.305E-04   2.221E-04   2.595E-04   4.119E-04   7.690E-04   1.421E-03   2.494E-03   4.616E-03   9.239E-02
IY= 15   1.178E-02   1.189E-02   1.284E-02   1.334E-02   1.356E-02   1.359E-02   1.394E-02   1.321E-02   9.526E-02
IY= 14   2.564E-02   4.331E-02   4.805E-02   3.684E-02   2.361E-02   1.196E-02   5.732E-03   6.710E-03   4.186E-03
IY= 13   3.470E-02   4.705E-02   4.545E-02   4.017E-02   3.040E-02   1.946E-02   1.118E-02   8.114E-03   5.658E-03
IY= 12   3.651E-02   3.920E-02   4.120E-02   4.085E-02   3.828E-02   3.206E-02   2.370E-02   1.048E-02   5.718E-03
IY= 11   4.178E-02   3.559E-02   1.335E-02   3.962E-02   7.081E-02   8.359E-02   8.324E-02   6.296E-02   5.545E-03
IY= 10   5.339E-02   3.842E-02   3.126E-02   3.669E-02   5.980E-02   1.116E-01   1.727E-01   5.098E-02   5.374E-03
IY=  9   6.438E-02   4.432E-02   4.097E-02   4.283E-02   7.839E-02   2.112E-01   1.057E-01   3.891E-02   5.232E-03
IY=  8   7.908E-02   5.773E-02   5.684E-02   6.441E-02   1.236E-01   1.469E-01   3.084E-02   2.302E-02   5.109E-03
IY=  7   1.073E-01   9.262E-02   8.946E-02   9.201E-02   9.769E-02   4.765E-02   4.234E-03   6.823E-03   5.004E-03
IY=  6   1.386E-02   6.326E-03   7.467E-02   8.432E-02   5.234E-02   1.873E-02   5.400E-03   1.171E-02   4.920E-03
IY=  5   4.190E-03   4.198E-03   3.069E-03   3.535E-02   2.020E-02   1.142E-02   1.066E-02   2.281E-02   4.846E-03
IY=  4   4.200E-03   4.197E-03   1.458E-03   2.281E-02   1.776E-02   1.766E-02   1.927E-02   3.819E-02   4.780E-03
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IY=  3   4.195E-03   4.213E-03   9.749E-04   2.987E-02   2.551E-02   3.437E-02   5.019E-02   5.271E-02   4.734E-03
IY=  2   1.748E-03   1.169E-03   2.161E-02   3.002E-02   3.233E-02   5.125E-02   7.505E-02   5.869E-02   4.674E-03
IY=  1   6.448E-02   5.417E-02   4.910E-02   4.759E-02   4.279E-02   3.495E-02   1.751E-02   6.541E-02   4.602E-03
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.058E+02   3.056E+02   3.050E+02   3.040E+02   3.026E+02   3.011E+02   2.996E+02   2.983E+02   2.978E+02
IY= 22   3.013E+02   3.014E+02   3.014E+02   3.013E+02   3.009E+02   3.002E+02   2.992E+02   2.982E+02   2.977E+02
IY= 21   2.997E+02   2.998E+02   2.999E+02   2.998E+02   2.994E+02   2.985E+02   2.976E+02   2.967E+02   2.965E+02
IY= 20   2.977E+02   2.977E+02   2.977E+02   2.975E+02   2.971E+02   2.966E+02   2.961E+02   2.957E+02   2.957E+02
IY= 19   2.962E+02   2.961E+02   2.961E+02   2.959E+02   2.956E+02   2.955E+02   2.954E+02   2.952E+02   2.953E+02
IY= 18   2.956E+02   2.955E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.952E+02
IY= 17   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02
IY= 16   2.951E+02   2.951E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.951E+02
IY= 15   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02
IY= 14   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.952E+02   2.952E+02   2.952E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.952E+02   2.952E+02   2.952E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.952E+02   2.954E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.953E+02   2.956E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.958E+02   2.957E+02   2.950E+02
IY=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.953E+02   2.957E+02   2.955E+02   2.950E+02
IY=  7   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.954E+02   2.959E+02   2.956E+02   2.950E+02
IY=  6   3.340E+02   3.314E+02   2.950E+02   2.950E+02   2.952E+02   2.959E+02   2.970E+02   2.969E+02   2.950E+02
IY=  5   2.000E+03   2.000E+03   3.401E+02   2.950E+02   2.958E+02   2.974E+02   2.989E+02   2.985E+02   2.950E+02
IY=  4   2.000E+03   2.000E+03   3.484E+02   2.952E+02   2.967E+02   2.994E+02   3.013E+02   3.006E+02   2.950E+02
IY=  3   2.000E+03   2.000E+03   3.450E+02   2.955E+02   2.973E+02   3.001E+02   3.018E+02   3.031E+02   2.950E+02
IY=  2   3.387E+02   3.321E+02   2.950E+02   2.958E+02   2.979E+02   3.009E+02   3.017E+02   3.044E+02   2.950E+02
IY=  1   2.950E+02   2.952E+02   2.958E+02   2.981E+02   3.015E+02   3.043E+02   3.047E+02   3.064E+02   2.950E+02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.158E+00   1.159E+00   1.161E+00   1.165E+00   1.171E+00   1.177E+00   1.182E+00   1.188E+00   1.190E+00
IY= 22   1.176E+00   1.176E+00   1.175E+00   1.176E+00   1.177E+00   1.180E+00   1.184E+00   1.188E+00   1.190E+00
IY= 21   1.182E+00   1.182E+00   1.181E+00   1.182E+00   1.183E+00   1.187E+00   1.191E+00   1.194E+00   1.195E+00
IY= 20   1.190E+00   1.190E+00   1.190E+00   1.191E+00   1.192E+00   1.194E+00   1.197E+00   1.198E+00   1.198E+00
IY= 19   1.196E+00   1.196E+00   1.197E+00   1.197E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00
IY= 18   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00
IY= 17   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.200E+00
IY= 16   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 14   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 12   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 11   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 10   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.198E+00   1.201E+00
IY=  9   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.196E+00   1.198E+00   1.201E+00
IY=  8   1.198E+00   1.198E+00   1.198E+00   1.199E+00   1.199E+00   1.198E+00   1.197E+00   1.198E+00   1.201E+00
IY=  7   1.197E+00   1.197E+00   1.197E+00   1.196E+00   1.198E+00   1.198E+00   1.196E+00   1.198E+00   1.201E+00
IY=  6   1.013E+00   1.036E+00   1.191E+00   1.198E+00   1.198E+00   1.196E+00   1.192E+00   1.193E+00   1.201E+00
IY=  5   2.209E-01   2.126E-01   1.009E+00   1.198E+00   1.196E+00   1.189E+00   1.184E+00   1.186E+00   1.201E+00
IY=  4   2.277E-01   2.171E-01   9.761E-01   1.196E+00   1.192E+00   1.181E+00   1.174E+00   1.178E+00   1.201E+00
IY=  3   2.161E-01   2.091E-01   1.002E+00   1.196E+00   1.189E+00   1.178E+00   1.172E+00   1.168E+00   1.201E+00
IY=  2   1.021E+00   1.048E+00   1.194E+00   1.194E+00   1.187E+00   1.175E+00   1.172E+00   1.164E+00   1.201E+00
IY=  1   1.199E+00   1.198E+00   1.196E+00   1.186E+00   1.173E+00   1.162E+00   1.161E+00   1.156E+00   1.201E+00
 IX=         1           2           3           4           5           6           7           8           9

*****************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    21 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 21, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -7.486E-01  -7.650E-01  -7.892E-01  -8.217E-01  -8.502E-01  -8.680E-01  -8.739E-01  -8.435E-01  -8.677E-01
IY= 22  -8.181E-01  -8.126E-01  -8.189E-01  -8.289E-01  -8.398E-01  -8.491E-01  -8.540E-01  -8.307E-01  -8.474E-01
IY= 21  -8.876E-01  -8.853E-01  -8.857E-01  -8.861E-01  -8.862E-01  -8.855E-01  -8.838E-01  -8.593E-01  -8.745E-01
IY= 20  -9.126E-01  -9.129E-01  -9.126E-01  -9.121E-01  -9.114E-01  -9.104E-01  -9.093E-01  -8.872E-01  -9.017E-01
IY= 19  -9.218E-01  -9.210E-01  -9.214E-01  -9.223E-01  -9.244E-01  -9.289E-01  -9.363E-01  -9.280E-01  -9.454E-01
IY= 18  -9.138E-01  -9.112E-01  -9.120E-01  -9.138E-01  -9.187E-01  -9.328E-01  -9.650E-01  -1.013E+00  -1.103E+00
IY= 17  -9.092E-01  -9.065E-01  -9.075E-01  -9.094E-01  -9.151E-01  -9.332E-01  -9.836E-01  -1.114E+00  -1.381E+00
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IY= 16  -9.001E-01  -8.998E-01  -8.995E-01  -8.998E-01  -9.027E-01  -9.195E-01  -9.832E-01  -1.256E+00  -2.627E+00
IY= 15  -2.542E+01  -2.812E+01  -3.102E+01  -3.272E+01  -3.414E+01  -3.502E+01  -3.661E+01  -2.463E+01  -5.314E+00
IY= 14  -3.072E+01  -3.196E+01  -3.335E+01  -3.437E+01  -3.519E+01  -3.546E+01  -3.537E+01  -2.782E+01  -1.808E+00
IY= 13  -4.026E+01  -4.050E+01  -4.046E+01  -4.011E+01  -3.957E+01  -3.843E+01  -3.724E+01  -2.901E+01  -1.626E+00
IY= 12  -4.829E+01  -4.868E+01  -4.863E+01  -4.744E+01  -4.543E+01  -4.248E+01  -3.990E+01  -3.036E+01  -1.443E+00
IY= 11  -8.665E+01  -8.426E+01  -5.395E+01  -7.227E+01  -7.889E+01  -7.095E+01  -1.853E+01   9.283E+01  -1.318E+00
IY= 10  -1.331E+02  -1.423E+02  -1.620E+02  -1.883E+02  -1.770E+02  -1.333E+02  -8.211E+01   4.497E+00  -1.246E+00
IY=  9  -1.636E+02  -1.715E+02  -1.869E+02  -1.925E+02  -1.690E+02  -1.263E+02  -1.043E+02  -3.623E+01  -1.199E+00
IY=  8  -2.198E+02  -2.210E+02  -2.308E+02  -2.005E+02  -1.635E+02  -1.338E+02  -1.115E+02  -5.128E+01  -1.162E+00
IY=  7  -4.269E+02  -3.339E+02  -3.553E+02  -2.377E+02  -1.784E+02  -1.440E+02  -1.095E+02  -5.170E+01  -1.132E+00
IY=  6  -2.036E+03  -1.175E+03  -7.839E+02  -2.871E+02  -1.968E+02  -1.543E+02  -1.097E+02  -5.062E+01  -1.109E+00
IY=  5   5.151E+03   1.567E+03  -1.230E+03  -2.752E+02  -2.098E+02  -1.739E+02  -1.246E+02  -5.397E+01  -1.089E+00
IY=  4   8.541E+03   3.448E+03  -1.909E+03  -3.466E+02  -2.243E+02  -2.010E+02  -1.559E+02  -5.510E+01  -1.071E+00
IY=  3   3.185E+03   6.540E+02  -8.623E+02  -2.869E+02  -2.214E+02  -2.211E+02  -1.720E+02  -3.499E+01  -1.061E+00
IY=  2  -7.862E+02  -5.560E+02  -4.938E+02  -2.695E+02  -2.230E+02  -2.273E+02  -1.712E+02   7.166E-01  -1.050E+00
IY=  1  -6.634E+01  -1.031E+02  -1.544E+02  -1.596E+02  -1.785E+02  -2.320E+02  -2.075E+02   4.425E+01  -1.043E+00
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -3.749E-03  -9.479E-03  -2.146E-02  -3.549E-02  -5.140E-02  -6.200E-02  -6.718E-02   1.886E-03
IY= 22   9.984E-03   1.854E-02   2.727E-02   2.961E-02   2.297E-02   6.716E-03  -1.576E-02   2.841E-02
IY= 21   3.726E-03   6.681E-03   8.385E-03   5.539E-03  -5.405E-03  -2.155E-02  -3.890E-02   1.721E-02
IY= 20  -8.452E-04  -2.053E-03  -5.484E-03  -1.156E-02  -2.332E-02  -3.681E-02  -4.978E-02   1.285E-02
IY= 19   2.441E-03   4.798E-03   7.914E-03   1.034E-02   1.192E-02   9.086E-03  -3.407E-03   4.501E-02
IY= 18   8.804E-03   1.754E-02   3.189E-02   4.959E-02   7.990E-02   1.142E-01   1.337E-01   1.729E-01
IY= 17   1.241E-02   2.390E-02   4.413E-02   7.185E-02   1.260E-01   2.026E-01   2.891E-01   4.213E-01
IY= 16   5.537E-03   1.486E-02   3.683E-02   7.328E-02   1.558E-01   2.998E-01   5.545E-01   1.145E+00
IY= 15  -1.776E+00  -2.761E+00  -3.539E+00  -3.984E+00  -4.394E+00  -4.750E+00  -5.211E+00  -4.376E+00
IY= 14  -5.572E-01  -9.982E-01  -1.518E+00  -1.907E+00  -2.272E+00  -2.494E+00  -2.643E+00  -3.060E-08
IY= 13  -1.336E-01  -3.835E-01  -8.702E-01  -1.404E+00  -1.940E+00  -2.211E+00  -2.377E+00  -1.259E-17
IY= 12   3.113E-01   2.196E-01  -2.378E-01  -7.584E-01  -1.475E+00  -2.062E+00  -2.418E+00   1.990E-15
IY= 11  -4.806E-01  -6.327E-01   1.005E+01   1.567E+01   1.860E+01   1.861E+01   1.593E+01   1.186E-07
IY= 10   3.964E-01   5.189E-01   4.692E+00   9.289E+00   9.633E+00   6.329E+00   3.945E+00   1.297E-08
IY=  9   1.561E-01   1.097E-01   7.684E-01   3.446E+00   2.643E+00  -3.149E+00  -3.723E+00   2.397E-15
IY=  8  -1.557E+00  -2.245E+00  -3.785E+00  -2.662E+00  -4.862E+00  -7.858E+00  -6.749E+00   2.175E-15
IY=  7  -8.115E+00  -6.434E+00  -1.124E+01  -9.683E+00  -1.049E+01  -1.064E+01  -7.791E+00   6.861E-15
IY=  6  -2.253E+01  -3.120E+01  -2.379E+01  -1.491E+01  -1.303E+01  -1.143E+01  -7.985E+00   1.795E-14
IY=  5   2.064E+01   8.125E+01   4.268E+00  -1.610E+01  -1.360E+01  -1.167E+01  -7.992E+00   5.382E-14
IY=  4   2.737E+01   9.959E+01   7.646E+00  -1.723E+01  -1.224E+01  -1.004E+01  -6.245E+00   1.403E-13
IY=  3   1.604E+01   6.994E+01   5.003E+00  -1.285E+01  -7.587E+00   1.147E+00   2.256E-01   1.797E-09
IY=  2  -1.625E+01  -2.309E+01  -1.674E+01  -9.901E+00  -5.232E+00   4.709E+00   4.337E+00   3.294E-08
IY=  1  -4.745E+00  -3.416E+00  -6.033E+00  -4.883E+00  -2.678E+00   3.386E+00   1.164E+01   1.328E-07
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -4.488E-01  -4.342E-01  -4.023E-01  -3.479E-01  -2.776E-01  -2.020E-01  -1.400E-01  -9.285E-02  -7.955E-02
IY= 21  -3.557E-01  -3.492E-01  -3.336E-01  -3.067E-01  -2.732E-01  -2.409E-01  -2.152E-01  -1.891E-01  -2.011E-01
IY= 20  -2.705E-01  -2.691E-01  -2.656E-01  -2.605E-01  -2.564E-01  -2.546E-01  -2.489E-01  -2.293E-01  -2.557E-01
IY= 19  -2.054E-01  -2.074E-01  -2.129E-01  -2.246E-01  -2.424E-01  -2.637E-01  -2.753E-01  -2.640E-01  -3.050E-01
IY= 18  -1.141E-01  -1.182E-01  -1.296E-01  -1.535E-01  -1.918E-01  -2.488E-01  -3.136E-01  -3.672E-01  -4.773E-01
IY= 17  -7.547E-02  -8.005E-02  -9.129E-02  -1.138E-01  -1.513E-01  -2.133E-01  -3.033E-01  -4.288E-01  -6.790E-01
IY= 16  -3.141E-02  -3.829E-02  -4.717E-02  -6.326E-02  -9.016E-02  -1.401E-01  -2.341E-01  -4.228E-01  -1.161E+00
IY= 15  -2.600E-12  -2.674E-12  -4.437E-12  -5.504E-12  -1.126E-11  -2.236E-11  -5.406E-11  -2.301E-07  -2.407E+00
IY= 14  -1.997E+00  -1.112E+00  -5.830E-01  -3.381E-01  -2.281E-01  -1.894E-01  -2.525E-01  -7.080E-01   8.609E-02
IY= 13  -2.938E+00  -1.805E+00  -1.074E+00  -6.446E-01  -4.015E-01  -2.866E-01  -3.151E-01  -3.074E-01   1.957E-01
IY= 12  -2.405E+00  -1.518E+00  -1.018E+00  -7.532E-01  -4.253E-01  -1.932E-01  -2.315E-01  -2.231E-01   2.068E-01
IY= 11  -5.686E-09  -3.748E-09  -3.599E-09  -2.495E-09  -1.174E-09   1.179E-10  -5.131E-10  -2.533E-10   1.827E-01
IY= 10  -3.397E+00  -4.418E+00  -8.252E+00  -8.823E+00  -6.210E+00  -3.267E+00  -2.128E+00  -4.168E+00   1.562E-01
IY=  9  -3.504E+00  -4.152E+00  -6.117E+00  -7.183E+00  -5.590E+00  -2.229E+00  -1.876E+00  -4.678E+00   1.365E-01
IY=  8  -4.959E+00  -5.548E+00  -6.586E+00  -6.344E+00  -4.726E+00  -2.287E+00  -1.036E+00  -3.159E+00   1.190E-01
IY=  7  -1.050E+01  -9.479E+00  -1.022E+01  -7.191E+00  -4.460E+00  -1.286E+00   4.726E-01  -1.059E+00   1.026E-01
IY=  6   8.881E+00   3.083E+00  -1.860E+01  -7.013E+00  -3.453E+00  -3.757E-01   1.165E+00   1.215E+00   8.748E-02
IY=  5   9.716E+01   7.196E+01  -2.506E+01  -3.177E+00  -3.025E+00  -1.708E+00   2.901E-01   2.605E+00   7.466E-02
IY=  4   1.427E+01   9.113E+00  -1.121E+01  -5.373E+00  -3.078E+00  -2.423E+00   1.732E-01   5.112E+00   6.022E-02
IY=  3  -2.979E+01  -1.876E+01   1.551E+01   2.150E+00  -1.935E+00  -2.128E+00   2.202E+00   7.817E+00   4.482E-02
IY=  2  -9.100E+01  -6.450E+01   2.000E+01   1.314E-02  -1.308E+00  -1.246E+00   1.702E+00   7.961E+00   3.748E-02
IY=  1  -1.669E+01  -8.482E+00   1.241E+01   4.878E+00   1.980E+00  -2.710E-01   9.068E-01   7.192E+00   1.839E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -1.808E+00  -1.735E+00  -1.575E+00  -1.308E+00  -9.742E-01  -6.150E-01  -3.213E-01  -1.052E-01  -3.607E-09
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IY= 22  -8.992E-01  -8.687E-01  -7.977E-01  -6.690E-01  -4.914E-01  -2.866E-01  -1.102E-01   1.842E-02   8.342E-02
IY= 21  -5.030E-01  -4.861E-01  -4.457E-01  -3.701E-01  -2.633E-01  -1.373E-01  -2.908E-02   4.695E-02   8.879E-02
IY= 20  -2.947E-01  -2.849E-01  -2.612E-01  -2.162E-01  -1.524E-01  -7.583E-02  -9.944E-03   3.575E-02   6.214E-02
IY= 19  -1.881E-01  -1.836E-01  -1.730E-01  -1.524E-01  -1.217E-01  -8.201E-02  -4.428E-02  -1.262E-02   6.185E-04
IY= 18  -1.088E-01  -1.077E-01  -1.054E-01  -1.004E-01  -9.134E-02  -7.655E-02  -5.936E-02  -3.902E-02  -3.001E-02
IY= 17  -5.725E-02  -5.776E-02  -5.917E-02  -6.117E-02  -6.290E-02  -6.318E-02  -6.229E-02  -5.247E-02  -5.584E-02
IY= 16   3.298E-02   3.043E-02   2.626E-02   1.996E-02   1.058E-02  -1.710E-03  -1.632E-02  -2.406E-02  -2.906E-02
IY= 15   3.757E+00   3.512E+00   3.284E+00   2.920E+00   2.503E+00   1.878E+00   1.188E+00   4.195E-01   7.227E-02
IY= 14   4.493E+00   4.878E+00   5.069E+00   4.909E+00   4.481E+00   3.635E+00   2.495E+00   1.152E+00   7.815E-01
IY= 13   5.668E+00   6.333E+00   6.833E+00   6.692E+00   6.087E+00   4.938E+00   3.372E+00   1.532E+00   1.058E+00
IY= 12   7.493E+00   8.081E+00   8.514E+00   8.391E+00   7.718E+00   6.164E+00   4.078E+00   1.821E+00   1.063E+00
IY= 11   9.370E+00   7.300E+00  -3.387E+00  -8.772E+00  -1.209E+01  -1.319E+01  -1.337E+01  -1.298E+01   1.028E+00
IY= 10   1.207E+01   1.144E+01   8.347E+00   3.926E+00  -9.038E-01  -2.651E+00  -5.422E+00  -9.261E+00   9.941E-01
IY=  9   1.296E+01   1.181E+01   1.021E+01   6.738E+00   1.446E+00   1.466E-01  -3.411E+00  -6.498E+00   9.667E-01
IY=  8   1.339E+01   1.099E+01   8.619E+00   4.315E+00   1.145E+00   1.763E-01  -2.287E+00  -3.689E+00   9.432E-01
IY=  7   2.937E+01   1.635E+01   6.647E+00   2.724E+00   1.447E+00   3.627E-01  -1.464E+00  -1.186E+00   9.232E-01
IY=  6   1.314E+02   8.775E+01   2.254E+00   2.261E+00   1.920E+00   5.601E-02  -1.739E+00  -1.271E+00   9.071E-01
IY=  5   8.196E+02   8.068E+02   9.118E+01   1.151E+01   2.419E+00   1.350E-01  -2.902E+00  -2.734E+00   8.933E-01
IY=  4   8.270E+02   8.155E+02   1.215E+02   1.808E+01   2.092E+00  -4.662E-01  -3.746E+00  -4.779E+00   8.808E-01
IY=  3   8.099E+02   7.967E+02   8.056E+01   1.214E+01   2.808E+00  -1.411E+00  -6.064E+00  -7.754E+00   8.718E-01
IY=  2   9.183E+01   6.101E+01   7.300E+00   7.446E+00   5.466E+00  -1.168E+00  -7.023E+00  -9.921E+00   8.604E-01
IY=  1   1.936E+01   1.204E+01   7.000E+00   6.706E+00   6.584E+00   4.404E+00  -5.651E+00  -1.346E+01   8.459E-01
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.413E-01   5.527E-01   5.731E-01   5.797E-01   5.450E-01   4.512E-01   3.371E-01   2.327E-01   2.044E-01
IY= 22   3.554E-01   3.561E-01   3.559E-01   3.481E-01   3.243E-01   2.771E-01   2.197E-01   1.632E-01   1.537E-01
IY= 21   2.045E-01   2.039E-01   2.021E-01   1.964E-01   1.841E-01   1.623E-01   1.359E-01   1.086E-01   1.114E-01
IY= 20   1.113E-01   1.113E-01   1.113E-01   1.106E-01   1.083E-01   1.020E-01   9.215E-02   8.015E-02   8.882E-02
IY= 19   6.177E-02   6.238E-02   6.409E-02   6.726E-02   7.120E-02   7.412E-02   7.379E-02   7.011E-02   8.461E-02
IY= 18   5.037E-02   5.036E-02   5.212E-02   5.724E-02   6.630E-02   8.010E-02   9.708E-02   1.192E-01   1.571E-01
IY= 17   4.776E-02   4.458E-02   4.473E-02   4.996E-02   6.169E-02   8.585E-02   1.316E-01   2.409E-01   4.690E-01
IY= 16   1.775E-05   1.653E-05   2.098E-05   4.687E-05   1.529E-04   5.123E-04   1.575E-03   5.417E-03   6.133E-01
IY= 15   1.065E-01   1.077E-01   1.257E-01   1.365E-01   1.428E-01   1.461E-01   1.559E-01   1.392E-01   1.783E+00
IY= 14   2.169E-01   3.637E-01   4.032E-01   3.063E-01   1.855E-01   8.817E-02   3.998E-02   1.093E-02   4.802E-03
IY= 13   2.925E-01   3.849E-01   3.216E-01   2.575E-01   1.787E-01   1.051E-01   5.301E-02   1.604E-02   8.327E-03
IY= 12   2.787E-01   3.200E-01   3.519E-01   3.437E-01   2.995E-01   2.091E-01   1.161E-01   2.533E-02   8.378E-03
IY= 11   4.343E-01   2.754E-01   1.797E-01   1.103E+00   1.912E+00   2.232E+00   2.060E+00   9.273E-01   7.836E-03
IY= 10   9.874E-01   8.135E-01   9.088E-01   1.697E+00   3.923E+00   1.566E+01   1.865E+01   5.043E-01   7.341E-03
IY=  9   1.553E+00   1.102E+00   1.065E+00   1.621E+00   6.973E+00   2.309E+01   6.062E+00   2.895E-01   6.954E-03
IY=  8   3.405E+00   2.187E+00   2.318E+00   3.957E+00   1.199E+01   9.533E+00   8.640E-01   1.000E-01   6.630E-03
IY=  7   1.488E+01   8.200E+00   7.320E+00   7.249E+00   6.510E+00   1.673E+00   1.065E-01   9.850E-03   6.361E-03
IY=  6   3.944E+01   2.716E+01   2.612E+01   6.576E+00   2.426E+00   4.336E-01   1.423E-01   3.250E-02   6.147E-03
IY=  5   4.379E+01   4.400E+01   1.750E+01   1.888E+00   8.444E-01   3.210E-01   2.551E-01   1.217E-01   5.967E-03
IY=  4   4.362E+01   4.350E+01   7.692E+00   1.172E+00   8.833E-01   8.293E-01   1.040E+00   3.219E-01   5.806E-03
IY=  3   4.332E+01   4.355E+01   6.817E+00   1.432E+00   1.985E+00   3.969E+00   3.761E+00   5.789E-01   5.693E-03
IY=  2   6.744E+00   6.832E+00   7.897E+00   2.027E+00   2.830E+00   1.003E+01   6.119E+00   7.232E-01   5.554E-03
IY=  1   1.709E+00   7.451E-01   3.512E-01   3.667E-01   2.888E-01   1.071E-01   4.277E-01   1.009E+00   5.383E-03
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.250E-01   1.284E-01   1.342E-01   1.336E-01   1.180E-01   8.531E-02   5.271E-02   2.862E-02   2.159E-02
IY= 22   6.006E-02   6.019E-02   5.995E-02   5.729E-02   5.019E-02   3.797E-02   2.543E-02   1.521E-02   1.270E-02
IY= 21   2.651E-02   2.636E-02   2.586E-02   2.439E-02   2.147E-02   1.692E-02   1.224E-02   8.266E-03   7.958E-03
IY= 20   1.101E-02   1.096E-02   1.081E-02   1.041E-02   9.632E-03   8.288E-03   6.699E-03   5.227E-03   5.739E-03
IY= 19   4.607E-03   4.625E-03   4.702E-03   4.841E-03   4.978E-03   4.955E-03   4.679E-03   4.280E-03   5.442E-03
IY= 18   3.174E-03   3.139E-03   3.243E-03   3.597E-03   4.222E-03   5.159E-03   6.343E-03   8.267E-03   1.441E-02
IY= 17   3.212E-03   2.779E-03   2.681E-03   3.036E-03   3.972E-03   6.222E-03   1.172E-02   3.559E-02   1.353E-01
IY= 16   1.066E-07   9.581E-08   1.370E-07   4.574E-07   2.696E-06   1.653E-05   8.907E-05   5.682E-04   3.747E-01
IY= 15   8.612E-02   8.760E-02   1.104E-01   1.249E-01   1.336E-01   1.384E-01   1.524E-01   1.286E-01   3.058E+00
IY= 14   1.611E-01   2.724E-01   3.065E-01   2.326E-01   1.338E-01   6.012E-02   2.555E-02   1.570E-03   4.797E-04
IY= 13   2.168E-01   2.738E-01   1.984E-01   1.455E-01   9.328E-02   5.102E-02   2.282E-02   2.789E-03   1.095E-03
IY= 12   1.828E-01   2.249E-01   2.593E-01   2.504E-01   2.036E-01   1.188E-01   4.916E-02   5.273E-03   1.105E-03
IY= 11   4.324E-01   2.184E-01   1.151E-01   1.750E+00   3.993E+00   5.037E+00   4.466E+00   1.288E+00   9.999E-04
IY= 10   1.670E+00   1.526E+00   2.326E+00   5.211E+00   2.012E+01   1.244E+02   1.507E+02   4.919E-01   9.068E-04
IY=  9   3.366E+00   2.447E+00   2.550E+00   4.856E+00   3.440E+01   1.856E+02   4.213E+01   2.139E-01   8.360E-04
IY=  8   1.186E+01   7.098E+00   8.282E+00   1.840E+01   7.067E+01   6.846E+01   4.716E+00   4.346E-02   7.782E-04
IY=  7   9.864E+02   3.389E+02   4.716E+01   4.272E+01   3.712E+01   1.005E+01   3.375E-01   1.343E-03   7.314E-04
IY=  6   1.046E+04   7.027E+03   7.336E+02   4.348E+01   1.204E+01   1.764E+00   3.193E-01   8.046E-03   6.948E-04
IY=  5   4.162E+04   4.146E+04   5.343E+03   1.742E+02   3.361E+00   8.513E-01   5.116E-01   5.830E-02   6.645E-04
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IY=  4   4.155E+04   4.104E+04   3.362E+03   1.445E+02   3.791E+00   3.939E+00   5.665E+00   2.508E-01   6.378E-04
IY=  3   4.079E+04   4.060E+04   2.647E+03   1.126E+02   1.202E+01   3.101E+01   2.653E+01   6.049E-01   6.192E-04
IY=  2   2.512E+03   2.218E+03   2.283E+02   1.102E+01   1.782E+01   8.395E+01   4.592E+01   8.448E-01   5.966E-04
IY=  1   3.002E+00   8.645E-01   2.797E-01   2.984E-01   2.086E-01   4.710E-02   3.760E-01   1.377E+00   5.694E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.076E+05   3.073E+05   3.067E+05   3.056E+05   3.041E+05   3.025E+05   3.009E+05   2.996E+05   2.991E+05
IY= 22   3.029E+05   3.030E+05   3.030E+05   3.028E+05   3.024E+05   3.016E+05   3.005E+05   2.994E+05   2.990E+05
IY= 21   3.011E+05   3.012E+05   3.013E+05   3.012E+05   3.006E+05   2.997E+05   2.987E+05   2.979E+05   2.977E+05
IY= 20   2.989E+05   2.989E+05   2.989E+05   2.987E+05   2.983E+05   2.978E+05   2.973E+05   2.968E+05   2.969E+05
IY= 19   2.973E+05   2.973E+05   2.972E+05   2.971E+05   2.969E+05   2.967E+05   2.965E+05   2.964E+05   2.965E+05
IY= 18   2.967E+05   2.967E+05   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05   2.964E+05
IY= 17   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.963E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.963E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.964E+05   2.964E+05   2.964E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05   2.964E+05   2.966E+05   2.962E+05
IY= 10   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.966E+05   2.969E+05   2.962E+05
IY=  9   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.961E+05   2.965E+05   2.972E+05   2.970E+05   2.962E+05
IY=  8   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.962E+05   2.967E+05   2.971E+05   2.967E+05   2.962E+05
IY=  7   2.970E+05   2.963E+05   2.959E+05   2.961E+05   2.963E+05   2.968E+05   2.972E+05   2.967E+05   2.962E+05
IY=  6   3.885E+05   3.715E+05   2.956E+05   2.961E+05   2.965E+05   2.975E+05   2.984E+05   2.981E+05   2.962E+05
IY=  5   1.918E+06   1.919E+06   3.893E+05   2.975E+05   2.971E+05   2.990E+05   3.002E+05   2.997E+05   2.962E+05
IY=  4   1.919E+06   1.917E+06   4.183E+05   2.990E+05   2.981E+05   3.010E+05   3.028E+05   3.018E+05   2.962E+05
IY=  3   1.917E+06   1.921E+06   3.924E+05   2.984E+05   2.986E+05   3.013E+05   3.028E+05   3.043E+05   2.962E+05
IY=  2   3.896E+05   3.643E+05   2.961E+05   2.972E+05   2.993E+05   3.021E+05   3.029E+05   3.055E+05   2.962E+05
IY=  1   2.997E+05   2.983E+05   2.972E+05   2.996E+05   3.026E+05   3.013E+05   3.059E+05   3.078E+05   2.962E+05
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.109E-01   2.141E-01   2.203E-01   2.264E-01   2.266E-01   2.148E-01   1.940E-01   1.703E-01   1.742E-01
IY= 22   1.893E-01   1.896E-01   1.902E-01   1.904E-01   1.886E-01   1.820E-01   1.709E-01   1.576E-01   1.674E-01
IY= 21   1.419E-01   1.420E-01   1.422E-01   1.424E-01   1.421E-01   1.401E-01   1.357E-01   1.285E-01   1.403E-01
IY= 20   1.012E-01   1.018E-01   1.032E-01   1.058E-01   1.095E-01   1.130E-01   1.141E-01   1.106E-01   1.237E-01
IY= 19   7.455E-02   7.572E-02   7.862E-02   8.411E-02   9.165E-02   9.980E-02   1.047E-01   1.034E-01   1.184E-01
IY= 18   7.193E-02   7.272E-02   7.538E-02   8.200E-02   9.370E-02   1.119E-01   1.337E-01   1.548E-01   1.542E-01
IY= 17   6.392E-02   6.436E-02   6.717E-02   7.400E-02   8.623E-02   1.066E-01   1.331E-01   1.468E-01   1.463E-01
IY= 16   2.661E-04   2.568E-04   2.893E-04   4.323E-04   7.810E-04   1.429E-03   2.506E-03   4.648E-03   9.033E-02
IY= 15   1.186E-02   1.193E-02   1.288E-02   1.343E-02   1.373E-02   1.389E-02   1.435E-02   1.356E-02   9.353E-02
IY= 14   2.628E-02   4.371E-02   4.775E-02   3.631E-02   2.314E-02   1.164E-02   5.631E-03   6.852E-03   4.326E-03
IY= 13   3.552E-02   4.870E-02   4.691E-02   4.102E-02   3.081E-02   1.949E-02   1.108E-02   8.298E-03   5.697E-03
IY= 12   3.825E-02   4.098E-02   4.297E-02   4.247E-02   3.964E-02   3.312E-02   2.468E-02   1.095E-02   5.715E-03
IY= 11   3.926E-02   3.126E-02   2.526E-02   6.256E-02   8.237E-02   8.899E-02   8.550E-02   6.010E-02   5.526E-03
IY= 10   5.254E-02   3.904E-02   3.195E-02   4.973E-02   6.887E-02   1.773E-01   2.076E-01   4.654E-02   5.349E-03
IY=  9   6.450E-02   4.465E-02   4.000E-02   4.869E-02   1.272E-01   2.587E-01   7.849E-02   3.526E-02   5.206E-03
IY=  8   8.797E-02   6.066E-02   5.839E-02   7.658E-02   1.830E-01   1.195E-01   1.425E-02   2.073E-02   5.084E-03
IY=  7   2.021E-02   1.786E-02   1.023E-01   1.107E-01   1.027E-01   2.506E-02   3.026E-03   6.504E-03   4.979E-03
IY=  6   1.339E-02   9.446E-03   8.373E-02   8.952E-02   4.402E-02   9.592E-03   5.705E-03   1.181E-02   4.895E-03
IY=  5   4.146E-03   4.204E-03   5.161E-03   1.841E-03   1.909E-02   1.090E-02   1.145E-02   2.286E-02   4.823E-03
IY=  4   4.120E-03   4.150E-03   1.584E-03   8.561E-04   1.852E-02   1.572E-02   1.719E-02   3.718E-02   4.757E-03
IY=  3   4.141E-03   4.205E-03   1.580E-03   1.639E-03   2.951E-02   4.572E-02   4.800E-02   4.986E-02   4.711E-03
IY=  2   1.630E-03   1.894E-03   2.458E-02   3.356E-02   4.044E-02   1.078E-01   7.339E-02   5.573E-02   4.653E-03
IY=  1   8.753E-02   5.780E-02   3.968E-02   4.055E-02   3.599E-02   2.191E-02   4.379E-02   6.653E-02   4.581E-03
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.064E+02   3.061E+02   3.054E+02   3.043E+02   3.029E+02   3.013E+02   2.997E+02   2.984E+02   2.979E+02
IY= 22   3.017E+02   3.018E+02   3.018E+02   3.016E+02   3.012E+02   3.004E+02   2.993E+02   2.982E+02   2.978E+02
IY= 21   2.999E+02   3.000E+02   3.001E+02   3.000E+02   2.994E+02   2.985E+02   2.976E+02   2.967E+02   2.965E+02
IY= 20   2.977E+02   2.977E+02   2.977E+02   2.975E+02   2.971E+02   2.966E+02   2.961E+02   2.957E+02   2.957E+02
IY= 19   2.961E+02   2.961E+02   2.960E+02   2.959E+02   2.957E+02   2.955E+02   2.953E+02   2.952E+02   2.953E+02
IY= 18   2.955E+02   2.955E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.952E+02
IY= 17   2.954E+02   2.953E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02
IY= 16   2.951E+02   2.951E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.951E+02
IY= 15   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02
IY= 14   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.952E+02   2.952E+02   2.952E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
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IY= 11   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.951E+02  2.952E+02  2.954E+02  2.950E+02
IY= 10   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.955E+02  2.957E+02  2.950E+02
IY=  9   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.953E+02  2.961E+02  2.958E+02  2.950E+02
IY=  8   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.951E+02  2.955E+02  2.959E+02  2.955E+02  2.950E+02
IY=  7   2.958E+02  2.951E+02  2.950E+02  2.950E+02  2.951E+02  2.956E+02  2.960E+02  2.956E+02  2.950E+02
IY=  6   3.869E+02  3.701E+02  2.950E+02  2.950E+02  2.953E+02  2.963E+02  2.972E+02  2.969E+02  2.950E+02
IY=  5   1.910E+03  1.911E+03  3.877E+02  2.963E+02  2.959E+02  2.978E+02  2.990E+02  2.985E+02  2.950E+02
IY=  4   1.911E+03  1.909E+03  4.166E+02  2.978E+02  2.969E+02  2.998E+02  3.016E+02  3.006E+02  2.950E+02
IY=  3   1.909E+03  1.913E+03  3.909E+02  2.973E+02  2.974E+02  3.001E+02  3.016E+02  3.031E+02  2.950E+02
IY=  2   3.881E+02  3.629E+02  2.950E+02  2.960E+02  2.981E+02  3.009E+02  3.017E+02  3.043E+02  2.950E+02
IY=  1   2.985E+02  2.971E+02  2.960E+02  2.984E+02  3.014E+02  3.001E+02  3.046E+02  3.066E+02  2.950E+02
 IX=        1          2          3          4          5          6          7          8          9
FIELD VALUES OF RHO1
IY= 23   1.156E+00  1.157E+00  1.160E+00  1.164E+00  1.170E+00  1.176E+00  1.182E+00  1.187E+00  1.189E+00
IY= 22   1.174E+00  1.174E+00  1.174E+00  1.175E+00  1.176E+00  1.180E+00  1.184E+00  1.188E+00  1.190E+00
IY= 21   1.181E+00  1.181E+00  1.181E+00  1.181E+00  1.183E+00  1.187E+00  1.191E+00  1.194E+00  1.195E+00
IY= 20   1.190E+00  1.190E+00  1.190E+00  1.191E+00  1.192E+00  1.195E+00  1.197E+00  1.198E+00  1.198E+00
IY= 19   1.196E+00  1.196E+00  1.197E+00  1.197E+00  1.198E+00  1.199E+00  1.200E+00  1.200E+00  1.200E+00
IY= 18   1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00
IY= 17   1.199E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00  1.200E+00
IY= 16   1.201E+00  1.201E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 15   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00
IY= 14   1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 13   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 12   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00
IY= 11   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00
IY= 10   1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.198E+00  1.198E+00  1.201E+00
IY=  9   1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.198E+00  1.195E+00  1.197E+00  1.201E+00
IY=  8   1.198E+00  1.198E+00  1.198E+00  1.199E+00  1.199E+00  1.197E+00  1.196E+00  1.198E+00  1.201E+00
IY=  7   1.193E+00  1.196E+00  1.197E+00  1.198E+00  1.198E+00  1.197E+00  1.196E+00  1.198E+00  1.201E+00
IY=  6   8.972E-01  9.462E-01  1.192E+00  1.198E+00  1.198E+00  1.194E+00  1.191E+00  1.193E+00  1.201E+00
IY=  5   1.949E-01  1.882E-01  9.026E-01  1.193E+00  1.195E+00  1.188E+00  1.183E+00  1.186E+00  1.201E+00
IY=  4   2.010E-01  1.919E-01  8.343E-01  1.185E+00  1.191E+00  1.179E+00  1.173E+00  1.178E+00  1.201E+00
IY=  3   1.914E-01  1.863E-01  8.987E-01  1.188E+00  1.189E+00  1.178E+00  1.173E+00  1.168E+00  1.201E+00
IY=  2   9.058E-01  9.709E-01  1.195E+00  1.194E+00  1.186E+00  1.175E+00  1.172E+00  1.164E+00  1.201E+00
IY=  1   1.186E+00  1.191E+00  1.195E+00  1.185E+00  1.174E+00  1.178E+00  1.161E+00  1.156E+00  1.201E+00
 IX=        1          2          3          4          5          6          7          8          9

**************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    22 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ= 22, ISWEEP=  70, ISTEP=    1
FIELD VALUES OF P1
IY= 23  -7.606E-01 -7.779E-01 -8.002E-01 -8.309E-01 -8.578E-01 -8.751E-01 -8.810E-01 -8.503E-01 -8.751E-01
IY= 22  -8.245E-01 -8.194E-01 -8.256E-01 -8.354E-01 -8.463E-01 -8.557E-01 -8.605E-01 -8.370E-01 -8.540E-01
IY= 21  -8.904E-01 -8.882E-01 -8.885E-01 -8.890E-01 -8.892E-01 -8.885E-01 -8.870E-01 -8.626E-01 -8.778E-01
IY= 20  -9.135E-01 -9.136E-01 -9.134E-01 -9.130E-01 -9.123E-01 -9.113E-01 -9.103E-01 -8.884E-01 -9.027E-01
IY= 19  -9.218E-01 -9.211E-01 -9.215E-01 -9.224E-01 -9.244E-01 -9.288E-01 -9.359E-01 -9.277E-01 -9.446E-01
IY= 18  -9.148E-01 -9.123E-01 -9.131E-01 -9.148E-01 -9.196E-01 -9.333E-01 -9.645E-01 -1.011E+00 -1.101E+00
IY= 17  -9.107E-01 -9.081E-01 -9.091E-01 -9.110E-01 -9.165E-01 -9.343E-01 -9.836E-01 -1.113E+00 -1.378E+00
IY= 16  -9.022E-01 -9.020E-01 -9.018E-01 -9.022E-01 -9.052E-01 -9.220E-01 -9.853E-01 -1.258E+00 -2.638E+00
IY= 15  -2.587E+01 -2.861E+01 -3.161E+01 -3.344E+01 -3.502E+01 -3.607E+01 -3.787E+01 -2.532E+01 -5.386E+00
IY= 14  -3.141E+01 -3.269E+01 -3.417E+01 -3.529E+01 -3.622E+01 -3.660E+01 -3.665E+01 -2.875E+01 -1.826E+00
IY= 13  -4.236E+01 -4.258E+01 -4.251E+01 -4.208E+01 -4.142E+01 -4.016E+01 -3.894E+01 -3.018E+01 -1.629E+00
IY= 12  -5.279E+01 -5.319E+01 -5.303E+01 -5.148E+01 -4.893E+01 -4.536E+01 -4.238E+01 -3.189E+01 -1.439E+00
IY= 11  -7.979E+01 -7.388E+01 -7.619E+01 -8.325E+01 -8.046E+01 -6.460E+01 -7.529E+00  1.080E+02 -1.312E+00
IY= 10  -1.342E+02 -1.522E+02 -1.950E+02 -2.139E+02 -1.844E+02 -1.351E+02 -8.130E+01  9.689E+00 -1.239E+00
IY=  9  -1.546E+02 -1.643E+02 -1.869E+02 -1.943E+02 -1.680E+02 -1.326E+02 -1.080E+02 -3.378E+01 -1.192E+00
IY=  8  -1.988E+02 -2.040E+02 -2.212E+02 -1.928E+02 -1.650E+02 -1.405E+02 -1.145E+02 -5.019E+01 -1.156E+00
IY=  7  -2.516E+02 -2.871E+02 -3.473E+02 -2.356E+02 -1.835E+02 -1.500E+02 -1.107E+02 -5.149E+01 -1.126E+00
IY=  6  -1.947E+02 -2.925E+02 -7.075E+02 -2.827E+02 -2.042E+02 -1.608E+02 -1.117E+02 -5.133E+01 -1.104E+00
IY=  5  -3.856E+03 -4.847E+03 -3.450E+02 -2.093E+02 -2.175E+02 -1.841E+02 -1.280E+02 -5.447E+01 -1.084E+00
IY=  4  -2.475E+03 -4.569E+03 -5.730E+02 -1.914E+02 -2.302E+02 -2.099E+02 -1.602E+02 -5.429E+01 -1.066E+00
IY=  3  -4.025E+03 -4.329E+03 -3.216E+02 -2.308E+02 -2.271E+02 -2.217E+02 -1.675E+02 -3.112E+01 -1.056E+00
IY=  2   2.988E+02 -8.360E+01 -4.496E+02 -2.665E+02 -2.254E+02 -2.283E+02 -1.571E+02  1.485E+01 -1.046E+00
IY=  1   1.427E+02 -1.833E+01 -1.352E+02 -1.459E+02 -1.709E+02 -2.224E+02 -1.966E+02  9.144E+01 -1.039E+00
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 IX=      1            2            3            4            5            6            7            8            9
FIELD VALUES OF U1
IY= 23  -6.417E-03  -1.386E-02  -2.709E-02  -4.105E-02  -5.605E-02  -6.549E-02  -6.952E-02   1.246E-03
IY= 22   9.438E-03   1.759E-02   2.594E-02   2.818E-02   2.164E-02   5.567E-03  -1.672E-02   2.819E-02
IY= 21   3.737E-03   6.710E-03   8.434E-03   5.583E-03  -5.437E-03  -2.171E-02  -3.916E-02   1.720E-02
IY= 20  -7.137E-04  -1.820E-03  -5.164E-03  -1.125E-02  -2.314E-02  -3.678E-02  -4.986E-02   1.287E-02
IY= 19   2.496E-03   4.891E-03   8.026E-03   1.041E-02   1.190E-02   8.982E-03  -3.547E-03   4.495E-02
IY= 18   8.854E-03   1.763E-02   3.203E-02   4.978E-02   8.005E-02   1.142E-01   1.337E-01   1.729E-01
IY= 17   1.251E-02   2.407E-02   4.437E-02   7.209E-02   1.262E-01   2.026E-01   2.893E-01   4.224E-01
IY= 16   6.112E-03   1.588E-02   3.824E-02   7.465E-02   1.567E-01   3.003E-01   5.559E-01   1.151E+00
IY= 15  -1.770E+00  -2.763E+00  -3.567E+00  -4.044E+00  -4.495E+00  -4.882E+00  -5.344E+00  -4.467E+00
IY= 14  -5.704E-01  -1.020E+00  -1.550E+00  -1.943E+00  -2.322E+00  -2.573E+00  -2.745E+00  -3.088E-08
IY= 13  -1.644E-01  -4.384E-01  -9.427E-01  -1.483E+00  -2.023E+00  -2.307E+00  -2.495E+00  -1.616E-17
IY= 12   3.031E-01   1.866E-01  -3.202E-01  -8.829E-01  -1.632E+00  -2.228E+00  -2.582E+00   1.990E-15
IY= 11  -7.843E-01   5.413E+00   1.329E+01   1.752E+01   1.976E+01   1.947E+01   1.683E+01   1.177E-07
IY= 10   7.907E-01   2.659E+00   6.978E+00   8.995E+00   6.829E+00   4.305E+00   4.059E+00   1.356E-08
IY=  9   5.283E-01   1.123E+00   2.288E+00   3.712E+00  -1.760E-01  -4.674E+00  -3.556E+00   3.664E-13
IY=  8  -1.055E+00  -1.118E+00  -2.882E+00  -2.977E+00  -6.745E+00  -8.246E+00  -6.527E+00   3.006E-15
IY=  7  -8.329E+00  -4.749E+00  -1.088E+01  -1.026E+01  -1.135E+01  -1.022E+01  -7.611E+00   1.083E-14
IY=  6  -1.999E+01  -2.354E+01  -2.290E+01  -1.490E+01  -1.259E+01  -1.051E+01  -7.857E+00   2.651E-14
IY=  5   2.398E+01   5.865E+01   1.138E+01  -1.470E+01  -1.296E+01  -1.076E+01  -7.762E+00   7.408E-14
IY=  4   3.405E+01   8.122E+01   2.096E+01  -1.162E+01  -1.142E+01  -9.040E+00  -5.667E+00   1.928E-13
IY=  3   1.742E+01   4.826E+01   9.468E+00  -1.102E+01  -5.461E+00   4.136E+00   2.483E+00   4.637E-09
IY=  2  -1.281E+01  -1.655E+01  -1.580E+01  -8.762E+00  -2.265E-01   8.538E+00   7.772E+00   4.583E-08
IY=  1  -2.288E+00   4.423E-01  -5.232E+00  -3.658E+00  -6.399E-01   1.352E+01   1.890E+01   1.918E-07
 IX=      1            2            3            4            5            6            7            8
FIELD VALUES OF V1
IY= 22  -4.514E-01  -4.366E-01  -4.043E-01  -3.494E-01  -2.784E-01  -2.019E-01  -1.391E-01  -9.158E-02  -7.796E-02
IY= 21  -3.529E-01  -3.461E-01  -3.299E-01  -3.020E-01  -2.672E-01  -2.338E-01  -2.076E-01  -1.818E-01  -1.934E-01
IY= 20  -2.637E-01  -2.621E-01  -2.580E-01  -2.520E-01  -2.469E-01  -2.445E-01  -2.388E-01  -2.199E-01  -2.458E-01
IY= 19  -1.966E-01  -1.985E-01  -2.037E-01  -2.148E-01  -2.320E-01  -2.528E-01  -2.644E-01  -2.538E-01  -2.941E-01
IY= 18  -1.074E-01  -1.113E-01  -1.225E-01  -1.460E-01  -1.838E-01  -2.403E-01  -3.049E-01  -3.589E-01  -4.688E-01
IY= 17  -7.060E-02  -7.508E-02  -8.608E-02  -1.082E-01  -1.451E-01  -2.066E-01  -2.964E-01  -4.224E-01  -6.736E-01
IY= 16  -2.934E-02  -3.612E-02  -4.472E-02  -6.028E-02  -8.642E-02  -1.357E-01  -2.290E-01  -4.185E-01  -1.162E+00
IY= 15  -2.460E-12  -2.555E-12  -4.307E-12  -5.397E-12  -1.110E-11  -2.216E-11  -5.434E-11  -2.439E-07  -2.430E+00
IY= 14  -2.065E+00  -1.192E+00  -6.653E-01  -4.129E-01  -2.919E-01  -2.444E-01  -2.998E-01  -7.426E-01   1.071E-01
IY= 13  -3.167E+00  -2.026E+00  -1.277E+00  -8.234E-01  -5.639E-01  -4.363E-01  -4.391E-01  -3.709E-01   2.349E-01
IY= 12  -2.726E+00  -1.804E+00  -1.262E+00  -9.585E-01  -6.070E-01  -3.676E-01  -3.865E-01  -3.006E-01   2.382E-01
IY= 11  -6.736E-09  -4.646E-09  -4.643E-09  -1.417E-09   1.393E-09   8.082E-09   7.467E-09  -2.447E-10   2.057E-01
IY= 10  -4.462E+00  -6.034E+00  -7.612E+00  -5.781E+00  -2.412E+00  -3.416E-01  -1.637E-01  -2.873E+00   1.737E-01
IY=  9  -4.080E+00  -4.707E+00  -6.152E+00  -5.964E+00  -2.686E+00  -4.323E-01  -1.801E-01  -3.368E+00   1.508E-01
IY=  8  -5.826E+00  -6.391E+00  -7.422E+00  -6.139E+00  -2.841E+00  -8.824E-01   9.780E-01  -2.249E+00   1.308E-01
IY=  7  -6.339E+00  -1.062E+01  -1.201E+01  -7.489E+00  -3.247E+00  -2.927E-02   1.608E+00  -7.530E-01   1.124E-01
IY=  6   2.490E+01   9.707E+00  -1.963E+01  -7.032E+00  -2.823E+00   7.936E-02   1.321E+00   1.020E+00   9.560E-02
IY=  5   8.155E+01   5.229E+01  -2.073E+01  -1.924E+00  -3.185E+00  -2.051E+00   4.314E-01   2.626E+00   8.145E-02
IY=  4   1.715E+01   9.859E+00  -1.133E+01  -5.544E+00  -3.502E+00  -2.750E+00  -4.235E-02   5.145E+00   6.560E-02
IY=  3  -3.369E+01  -1.830E+01   1.513E+01   2.692E+00  -1.825E+00  -1.380E+00   2.281E+00   7.823E+00   4.874E-02
IY=  2  -7.141E+01  -4.059E+01   1.582E+01  -2.841E-01  -6.616E-01   9.512E-01   2.142E+00   7.730E+00   4.075E-02
IY=  1  -2.611E+01  -9.815E+00   1.651E+01   7.252E+00   3.780E+00   2.365E+00   2.272E+00   7.479E+00   2.001E-02
 IX=      1            2            3            4            5            6            7            8            9
FIELD VALUES OF W1
IY= 23  -1.836E+00  -1.761E+00  -1.597E+00  -1.325E+00  -9.861E-01  -6.222E-01  -3.250E-01  -1.065E-01  -3.689E-09
IY= 22  -9.019E-01  -8.709E-01  -7.989E-01  -6.688E-01  -4.897E-01  -2.838E-01  -1.070E-01   2.133E-02   8.640E-02
IY= 21  -4.998E-01  -4.828E-01  -4.422E-01  -3.663E-01  -2.594E-01  -1.339E-01  -2.663E-02   4.836E-02   8.985E-02
IY= 20  -2.896E-01  -2.799E-01  -2.562E-01  -2.115E-01  -1.484E-01  -7.306E-02  -8.560E-03   3.598E-02   6.182E-02
IY= 19  -1.824E-01  -1.780E-01  -1.678E-01  -1.479E-01  -1.184E-01  -8.034E-02  -4.434E-02  -1.396E-02  -1.770E-03
IY= 18  -1.041E-01  -1.031E-01  -1.012E-01  -9.697E-02  -8.936E-02  -7.680E-02  -6.224E-02  -4.411E-02  -3.761E-02
IY= 17  -5.328E-02  -5.388E-02  -5.570E-02  -5.860E-02  -6.192E-02  -6.483E-02  -6.742E-02  -6.136E-02  -7.126E-02
IY= 16   3.724E-02   3.451E-02   2.988E-02   2.267E-02   1.144E-02  -4.126E-03  -2.379E-02  -3.777E-02  -5.536E-02
IY= 15   3.762E+00   3.500E+00   3.268E+00   2.902E+00   2.490E+00   1.869E+00   1.175E+00   3.935E-01   4.502E-02
IY= 14   4.544E+00   4.926E+00   5.116E+00   4.953E+00   4.518E+00   3.657E+00   2.508E+00   1.149E+00   8.097E-01
IY= 13   5.849E+00   6.523E+00   7.010E+00   6.848E+00   6.215E+00   5.026E+00   3.432E+00   1.552E+00   1.059E+00
IY= 12   7.937E+00   8.538E+00   8.966E+00   8.795E+00   8.043E+00   6.397E+00   4.254E+00   1.905E+00   1.056E+00
IY= 11   8.579E+00   2.493E+00  -8.129E+00  -1.177E+01  -1.331E+01  -1.321E+01  -1.274E+01  -1.185E+01   1.019E+00
IY= 10   1.180E+01   1.097E+01   7.415E+00   3.170E+00  -4.521E-01  -2.041E+00  -5.366E+00  -8.654E+00   9.855E-01
IY=  9   1.198E+01   1.083E+01   9.297E+00   6.178E+00   2.376E+00   1.112E+00  -3.231E+00  -6.228E+00   9.586E-01
IY=  8   1.373E+01   9.319E+00   7.380E+00   3.804E+00   1.942E+00   9.005E-01  -2.472E+00  -3.658E+00   9.358E-01
IY=  7   4.362E+01   2.181E+01   5.699E+00   2.692E+00   1.893E+00   1.159E-01  -2.245E+00  -1.281E+00   9.165E-01
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IY=  6   1.522E+02   9.940E+01   1.607E+00   1.792E+00   1.158E+00  -1.434E+00  -2.813E+00  -1.426E+00   9.008E-01
IY=  5   8.378E+02   8.114E+02   1.049E+02   1.824E+01   1.841E+00  -6.907E-01  -3.840E+00  -2.595E+00   8.874E-01
IY=  4   8.592E+02   8.302E+02   1.455E+02   3.001E+01   2.550E+00  -6.465E-01  -3.868E+00  -4.205E+00   8.754E-01
IY=  3   8.179E+02   7.943E+02   9.096E+01   1.646E+01   2.157E+00  -2.303E+00  -5.735E+00  -6.580E+00   8.664E-01
IY=  2   1.049E+02   6.745E+01   7.195E+00   6.797E+00   4.337E+00  -3.073E+00  -6.797E+00  -8.400E+00   8.554E-01
IY=  1   2.543E+01   1.257E+01   5.000E+00   4.429E+00   4.913E+00   2.837E-01  -7.564E+00  -1.258E+01   8.411E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.445E-01   5.568E-01   5.787E-01   5.866E-01   5.526E-01   4.582E-01   3.425E-01   2.364E-01   2.076E-01
IY= 22   3.579E-01   3.587E-01   3.586E-01   3.508E-01   3.268E-01   2.787E-01   2.206E-01   1.635E-01   1.540E-01
IY= 21   2.043E-01   2.038E-01   2.019E-01   1.959E-01   1.833E-01   1.611E-01   1.345E-01   1.074E-01   1.103E-01
IY= 20   1.096E-01   1.096E-01   1.095E-01   1.086E-01   1.061E-01   9.989E-02   9.019E-02   7.847E-02   8.726E-02
IY= 19   5.944E-02   6.002E-02   6.169E-02   6.480E-02   6.871E-02   7.174E-02   7.166E-02   6.827E-02   8.287E-02
IY= 18   4.788E-02   4.785E-02   4.954E-02   5.455E-02   6.349E-02   7.729E-02   9.452E-02   1.171E-01   1.558E-01
IY= 17   4.550E-02   4.226E-02   4.231E-02   4.734E-02   5.878E-02   8.258E-02   1.281E-01   2.373E-01   4.684E-01
IY= 16   2.186E-05   2.037E-05   2.451E-05   5.008E-05   1.558E-04   5.153E-04   1.583E-03   5.467E-03   6.157E-01
IY= 15   1.066E-01   1.072E-01   1.257E-01   1.378E-01   1.462E-01   1.518E-01   1.629E-01   1.450E-01   1.786E+00
IY= 14   2.261E-01   3.730E-01   4.067E-01   3.067E-01   1.860E-01   8.885E-02   4.099E-02   1.121E-02   5.172E-03
IY= 13   3.059E-01   4.101E-01   3.441E-01   2.734E-01   1.883E-01   1.094E-01   5.447E-02   1.666E-02   8.437E-03
IY= 12   3.098E-01   3.540E-01   3.870E-01   3.752E-01   3.241E-01   2.255E-01   1.270E-01   2.771E-02   8.353E-03
IY= 11   3.713E-01   6.777E-02   7.242E-01   1.653E+00   2.249E+00   2.385E+00   2.118E+00   8.184E-01   7.768E-03
IY= 10   9.988E-01   8.328E-01   1.092E+00   2.105E+00   9.587E+00   2.501E+01   2.072E+01   4.124E-01   7.262E-03
IY=  9   1.576E+00   1.126E+00   1.144E+00   2.073E+00   1.700E+01   2.411E+01   4.503E+00   2.388E-01   6.875E-03
IY=  8   4.497E+00   2.556E+00   2.796E+00   6.333E+00   1.859E+01   6.274E+00   6.171E-01   8.773E-02   6.554E-03
IY=  7   1.539E+01   7.923E+00   8.581E+00   1.071E+01   7.084E+00   5.446E-01   2.122E-01   1.140E-02   6.290E-03
IY=  6   4.709E+01   4.057E+01   3.319E+01   8.634E+00   2.492E+00   5.199E-01   1.490E-01   3.302E-02   6.079E-03
IY=  5   3.945E+01   4.055E+01   2.834E+01   2.871E+00   8.813E-01   4.072E-01   2.360E-01   1.190E-01   5.903E-03
IY=  4   3.873E+01   3.921E+01   9.244E+00   1.365E+00   8.191E-01   7.800E-01   8.956E-01   2.994E-01   5.746E-03
IY=  3   3.882E+01   3.982E+01   9.626E+00   1.487E+00   2.647E+00   5.477E+00   3.462E+00   4.974E-01   5.632E-03
IY=  2   7.604E+00   1.110E+01   1.026E+01   2.326E+00   3.214E+00   8.612E+00   5.865E+00   6.051E-01   5.497E-03
IY=  1   2.700E+00   7.338E-01   1.622E-01   2.036E-01   1.526E-01   2.139E-01   1.399E+00   1.036E+00   5.329E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.273E-01   1.310E-01   1.373E-01   1.369E-01   1.210E-01   8.765E-02   5.419E-02   2.941E-02   2.217E-02
IY= 22   6.101E-02   6.115E-02   6.095E-02   5.827E-02   5.104E-02   3.854E-02   2.573E-02   1.532E-02   1.279E-02
IY= 21   2.667E-02   2.651E-02   2.600E-02   2.448E-02   2.148E-02   1.685E-02   1.214E-02   8.175E-03   7.887E-03
IY= 20   1.088E-02   1.082E-02   1.066E-02   1.023E-02   9.435E-03   8.094E-03   6.533E-03   5.100E-03   5.627E-03
IY= 19   4.423E-03   4.439E-03   4.509E-03   4.639E-03   4.770E-03   4.759E-03   4.514E-03   4.150E-03   5.323E-03
IY= 18   2.979E-03   2.943E-03   3.041E-03   3.383E-03   3.996E-03   4.933E-03   6.146E-03   8.130E-03   1.446E-02
IY= 17   3.029E-03   2.597E-03   2.492E-03   2.826E-03   3.723E-03   5.908E-03   1.131E-02   3.537E-02   1.371E-01
IY= 16   1.457E-07   1.310E-07   1.729E-07   5.052E-07   2.772E-06   1.667E-05   8.979E-05   5.761E-04   3.874E-01
IY= 15   8.625E-02   8.697E-02   1.103E-01   1.267E-01   1.384E-01   1.465E-01   1.628E-01   1.367E-01   3.135E+00
IY= 14   1.708E-01   2.840E-01   3.140E-01   2.368E-01   1.373E-01   6.272E-02   2.735E-02   1.630E-03   5.363E-04
IY= 13   2.314E-01   2.998E-01   2.196E-01   1.604E-01   1.022E-01   5.533E-02   2.444E-02   2.954E-03   1.117E-03
IY= 12   2.142E-01   2.617E-01   2.992E-01   2.856E-01   2.292E-01   1.330E-01   5.626E-02   6.035E-03   1.101E-03
IY= 11   3.418E-01   2.666E-02   9.311E-01   3.209E+00   5.095E+00   5.565E+00   4.658E+00   1.068E+00   9.871E-04
IY= 10   1.707E+00   1.658E+00   2.757E+00   6.470E+00   7.506E+01   2.231E+02   1.799E+02   3.637E-01   8.922E-04
IY=  9   3.412E+00   2.499E+00   2.810E+00   6.672E+00   1.087E+02   1.818E+02   3.148E+01   1.603E-01   8.218E-04
IY=  8   1.841E+01   9.023E+00   1.139E+01   3.452E+01   1.184E+02   3.710E+01   2.989E+00   3.569E-02   7.650E-04
IY=  7   1.912E+03   7.645E+02   5.517E+01   6.181E+01   3.903E+01   2.419E+00   7.816E-01   1.671E-03   7.192E-04
IY=  6   1.322E+04   1.022E+04   9.948E+02   5.456E+01   1.215E+01   2.597E+00   3.288E-01   8.240E-03   6.833E-04
IY=  5   3.407E+04   3.490E+04   8.232E+03   4.397E+02   3.640E+00   1.538E+00   4.646E-01   5.639E-02   6.539E-04
IY=  4   3.341E+04   3.361E+04   3.869E+03   2.756E+02   3.632E+00   4.075E+00   5.056E+00   2.250E-01   6.280E-04
IY=  3   3.313E+04   3.381E+04   3.273E+03   1.872E+02   1.843E+01   4.916E+01   2.621E+01   4.818E-01   6.094E-04
IY=  2   2.746E+03   3.184E+03   3.587E+02   1.492E+01   2.126E+01   8.007E+01   4.655E+01   6.464E-01   5.876E-04
IY=  1   5.965E+00   8.450E-01   8.783E-02   1.234E-01   8.014E-02   1.330E-01   2.225E+00   1.434E+00   5.609E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.081E+05   3.078E+05   3.071E+05   3.059E+05   3.044E+05   3.027E+05   3.011E+05   2.997E+05   2.992E+05
IY= 22   3.033E+05   3.033E+05   3.033E+05   3.031E+05   3.026E+05   3.017E+05   3.006E+05   2.994E+05   2.990E+05
IY= 21   3.013E+05   3.014E+05   3.015E+05   3.013E+05   3.007E+05   2.998E+05   2.987E+05   2.979E+05   2.977E+05
IY= 20   2.990E+05   2.990E+05   2.989E+05   2.987E+05   2.983E+05   2.977E+05   2.972E+05   2.968E+05   2.969E+05
IY= 19   2.973E+05   2.973E+05   2.972E+05   2.971E+05   2.969E+05   2.967E+05   2.965E+05   2.964E+05   2.964E+05
IY= 18   2.967E+05   2.967E+05   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05   2.964E+05
IY= 17   2.965E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.963E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
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IY= 13   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.963E+05   2.964E+05   2.967E+05   2.962E+05
IY= 10   2.961E+05   2.961E+05   2.960E+05   2.960E+05   2.961E+05   2.963E+05   2.968E+05   2.970E+05   2.962E+05
IY=  9   2.961E+05   2.960E+05   2.960E+05   2.961E+05   2.961E+05   2.967E+05   2.975E+05   2.971E+05   2.962E+05
IY=  8   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.963E+05   2.969E+05   2.973E+05   2.968E+05   2.962E+05
IY=  7   3.012E+05   2.979E+05   2.959E+05   2.961E+05   2.964E+05   2.970E+05   2.975E+05   2.967E+05   2.962E+05
IY=  6   4.337E+05   3.977E+05   2.956E+05   2.961E+05   2.966E+05   2.979E+05   2.987E+05   2.981E+05   2.962E+05
IY=  5   1.871E+06   1.884E+06   4.217E+05   3.015E+05   2.973E+05   2.993E+05   3.006E+05   2.998E+05   2.962E+05
IY=  4   1.864E+06   1.873E+06   4.757E+05   3.079E+05   2.983E+05   3.014E+05   3.033E+05   3.018E+05   2.962E+05
IY=  3   1.876E+06   1.892E+06   4.202E+05   3.022E+05   2.987E+05   3.014E+05   3.029E+05   3.043E+05   2.962E+05
IY=  2   4.290E+05   3.815E+05   2.963E+05   2.974E+05   2.994E+05   3.023E+05   3.030E+05   3.054E+05   2.962E+05
IY=  1   3.068E+05   3.010E+05   2.973E+05   2.998E+05   3.027E+05   3.055E+05   3.066E+05   3.082E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.096E-01   2.129E-01   2.195E-01   2.262E-01   2.271E-01   2.155E-01   1.948E-01   1.710E-01   1.749E-01
IY= 22   1.890E-01   1.893E-01   1.899E-01   1.901E-01   1.883E-01   1.815E-01   1.702E-01   1.569E-01   1.668E-01
IY= 21   1.409E-01   1.410E-01   1.411E-01   1.411E-01   1.407E-01   1.386E-01   1.342E-01   1.269E-01   1.388E-01
IY= 20   9.937E-02   9.990E-02   1.012E-01   1.038E-01   1.074E-01   1.110E-01   1.121E-01   1.087E-01   1.218E-01
IY= 19   7.189E-02   7.305E-02   7.595E-02   8.147E-02   8.908E-02   9.733E-02   1.024E-01   1.011E-01   1.161E-01
IY= 18   6.926E-02   7.003E-02   7.263E-02   7.915E-02   9.079E-02   1.090E-01   1.308E-01   1.517E-01   1.512E-01
IY= 17   6.151E-02   6.190E-02   6.465E-02   7.138E-02   8.351E-02   1.039E-01   1.305E-01   1.433E-01   1.440E-01
IY= 16   2.953E-04   2.850E-04   3.126E-04   4.469E-04   7.882E-04   1.433E-03   2.513E-03   4.669E-03   8.809E-02
IY= 15   1.187E-02   1.190E-02   1.288E-02   1.349E-02   1.389E-02   1.416E-02   1.467E-02   1.384E-02   9.160E-02
IY= 14   2.693E-02   4.409E-02   4.741E-02   3.575E-02   2.267E-02   1.133E-02   5.529E-03   6.939E-03   4.490E-03
IY= 13   3.640E-02   5.048E-02   4.853E-02   4.196E-02   3.122E-02   1.948E-02   1.092E-02   8.459E-03   5.735E-03
IY= 12   4.032E-02   4.310E-02   4.507E-02   4.437E-02   4.124E-02   3.440E-02   2.582E-02   1.146E-02   5.706E-03
IY= 11   3.630E-02   1.551E-02   5.070E-02   7.658E-02   8.934E-02   9.201E-02   8.670E-02   5.646E-02   5.503E-03
IY= 10   5.259E-02   3.766E-02   3.895E-02   6.162E-02   1.102E-01   2.523E-01   2.148E-01   4.208E-02   5.321E-03
IY=  9   6.550E-02   4.570E-02   4.192E-02   5.795E-02   2.393E-01   2.879E-01   5.796E-02   3.202E-02   5.177E-03
IY=  8   9.887E-02   6.519E-02   6.173E-02   1.046E-01   2.628E-01   9.551E-02   1.147E-02   1.941E-02   5.055E-03
IY=  7   1.115E-02   7.390E-03   1.201E-01   1.670E-01   1.157E-01   1.103E-02   5.187E-03   6.996E-03   4.952E-03
IY=  6   1.510E-02   1.449E-02   9.966E-02   1.230E-01   4.599E-02   9.367E-03   6.074E-03   1.191E-02   4.868E-03
IY=  5   4.112E-03   4.241E-03   8.780E-03   1.688E-03   1.921E-02   9.702E-03   1.079E-02   2.261E-02   4.797E-03
IY=  4   4.041E-03   4.118E-03   1.988E-03   6.084E-04   1.662E-02   1.344E-02   1.428E-02   3.586E-02   4.733E-03
IY=  3   4.094E-03   4.221E-03   2.548E-03   1.063E-03   3.423E-02   5.492E-02   4.115E-02   4.622E-02   4.686E-03
IY=  2   1.895E-03   3.485E-03   2.641E-02   3.263E-02   4.373E-02   8.337E-02   6.649E-02   5.097E-02   4.629E-03
IY=  1   1.100E-01   5.736E-02   2.697E-02   3.021E-02   2.616E-02   3.097E-02   7.921E-02   6.743E-02   4.558E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.069E+02   3.066E+02   3.059E+02   3.047E+02   3.032E+02   3.015E+02   2.999E+02   2.985E+02   2.980E+02
IY= 22   3.021E+02   3.021E+02   3.021E+02   3.019E+02   3.014E+02   3.005E+02   2.994E+02   2.982E+02   2.978E+02
IY= 21   3.001E+02   3.002E+02   3.003E+02   3.001E+02   2.995E+02   2.986E+02   2.976E+02   2.967E+02   2.965E+02
IY= 20   2.978E+02   2.978E+02   2.978E+02   2.975E+02   2.971E+02   2.966E+02   2.960E+02   2.957E+02   2.957E+02
IY= 19   2.961E+02   2.961E+02   2.960E+02   2.959E+02   2.957E+02   2.955E+02   2.953E+02   2.952E+02   2.953E+02
IY= 18   2.955E+02   2.955E+02   2.954E+02   2.953E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.952E+02
IY= 17   2.954E+02   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02
IY= 16   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.951E+02
IY= 15   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02
IY= 14   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.952E+02   2.952E+02   2.952E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.953E+02   2.955E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.956E+02   2.958E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.955E+02   2.963E+02   2.959E+02   2.950E+02
IY=  8   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.957E+02   2.961E+02   2.956E+02   2.950E+02
IY=  7   3.000E+02   2.967E+02   2.950E+02   2.950E+02   2.952E+02   2.958E+02   2.963E+02   2.955E+02   2.950E+02
IY=  6   4.320E+02   3.961E+02   2.950E+02   2.950E+02   2.954E+02   2.967E+02   2.975E+02   2.969E+02   2.950E+02
IY=  5   1.864E+03   1.876E+03   4.201E+02   3.002E+02   2.961E+02   2.981E+02   2.994E+02   2.986E+02   2.950E+02
IY=  4   1.856E+03   1.866E+03   4.739E+02   3.067E+02   2.971E+02   3.002E+02   3.021E+02   3.006E+02   2.950E+02
IY=  3   1.869E+03   1.884E+03   4.186E+02   3.010E+02   2.975E+02   3.002E+02   3.017E+02   3.031E+02   2.950E+02
IY=  2   4.273E+02   3.800E+02   2.951E+02   2.962E+02   2.982E+02   3.011E+02   3.017E+02   3.042E+02   2.950E+02
IY=  1   3.056E+02   2.998E+02   2.961E+02   2.986E+02   3.015E+02   3.043E+02   3.054E+02   3.070E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.155E+00   1.156E+00   1.158E+00   1.163E+00   1.169E+00   1.175E+00   1.181E+00   1.187E+00   1.189E+00
IY= 22   1.173E+00   1.173E+00   1.173E+00   1.174E+00   1.175E+00   1.179E+00   1.183E+00   1.188E+00   1.190E+00
IY= 21   1.180E+00   1.180E+00   1.180E+00   1.181E+00   1.183E+00   1.187E+00   1.191E+00   1.194E+00   1.195E+00
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IY= 20   1.190E+00   1.190E+00   1.190E+00   1.191E+00   1.192E+00   1.195E+00   1.197E+00   1.198E+00   1.198E+00
IY= 19   1.196E+00   1.196E+00   1.197E+00   1.197E+00   1.198E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
IY= 18   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00
IY= 17   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.200E+00
IY= 16   1.201E+00   1.201E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 14   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 12   1.200E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 11   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 10   1.199E+00   1.199E+00   1.199E+00   1.198E+00   1.199E+00   1.199E+00   1.197E+00   1.198E+00   1.201E+00
IY=  9   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.197E+00   1.195E+00   1.197E+00   1.201E+00
IY=  8   1.199E+00   1.199E+00   1.198E+00   1.199E+00   1.199E+00   1.197E+00   1.195E+00   1.198E+00   1.201E+00
IY=  7   1.178E+00   1.191E+00   1.197E+00   1.198E+00   1.198E+00   1.196E+00   1.195E+00   1.198E+00   1.201E+00
IY=  6   8.186E-01   8.917E-01   1.193E+00   1.198E+00   1.197E+00   1.192E+00   1.189E+00   1.193E+00   1.201E+00
IY=  5   1.829E-01   1.798E-01   8.405E-01   1.178E+00   1.194E+00   1.186E+00   1.182E+00   1.186E+00   1.201E+00
IY=  4   1.862E-01   1.813E-01   7.434E-01   1.153E+00   1.190E+00   1.178E+00   1.171E+00   1.178E+00   1.201E+00
IY=  3   1.820E-01   1.800E-01   8.437E-01   1.174E+00   1.188E+00   1.178E+00   1.172E+00   1.169E+00   1.201E+00
IY=  2   8.316E-01   9.316E-01   1.195E+00   1.193E+00   1.185E+00   1.174E+00   1.172E+00   1.165E+00   1.201E+00
IY=  1   1.161E+00   1.182E+00   1.195E+00   1.185E+00   1.173E+00   1.162E+00   1.158E+00   1.155E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

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TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    23 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ= 23, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -7.723E-01  -7.909E-01  -8.118E-01  -8.407E-01  -8.659E-01  -8.826E-01  -8.883E-01  -8.571E-01  -8.826E-01
IY= 22  -8.317E-01  -8.269E-01  -8.328E-01  -8.425E-01  -8.532E-01  -8.624E-01  -8.671E-01  -8.434E-01  -8.606E-01
IY= 21  -8.934E-01  -8.911E-01  -8.915E-01  -8.919E-01  -8.922E-01  -8.915E-01  -8.900E-01  -8.658E-01  -8.809E-01
IY= 20  -9.143E-01  -9.144E-01  -9.142E-01  -9.138E-01  -9.132E-01  -9.122E-01  -9.112E-01  -8.896E-01  -9.037E-01
IY= 19  -9.219E-01  -9.212E-01  -9.216E-01  -9.225E-01  -9.244E-01  -9.286E-01  -9.354E-01  -9.273E-01  -9.438E-01
IY= 18  -9.157E-01  -9.134E-01  -9.141E-01  -9.158E-01  -9.204E-01  -9.336E-01  -9.637E-01  -1.009E+00  -1.097E+00
IY= 17  -9.121E-01  -9.096E-01  -9.106E-01  -9.124E-01  -9.178E-01  -9.351E-01  -9.830E-01  -1.111E+00  -1.372E+00
IY= 16  -9.043E-01  -9.041E-01  -9.039E-01  -9.044E-01  -9.075E-01  -9.242E-01  -9.868E-01  -1.258E+00  -2.642E+00
IY= 15  -2.620E+01  -2.897E+01  -3.210E+01  -3.408E+01  -3.586E+01  -3.711E+01  -3.915E+01  -2.601E+01  -5.451E+00
IY= 14  -3.198E+01  -3.332E+01  -3.491E+01  -3.615E+01  -3.722E+01  -3.774E+01  -3.797E+01  -2.970E+01  -1.845E+00
IY= 13  -4.464E+01  -4.485E+01  -4.474E+01  -4.421E+01  -4.342E+01  -4.203E+01  -4.078E+01  -3.140E+01  -1.630E+00
IY= 12  -5.853E+01  -5.893E+01  -5.860E+01  -5.654E+01  -5.325E+01  -4.884E+01  -4.529E+01  -3.360E+01  -1.432E+00
IY= 11  -7.215E+01  -5.262E+01  -7.305E+01  -7.844E+01  -6.745E+01  -4.801E+01   8.592E+00   1.235E+02  -1.304E+00
IY= 10  -1.377E+02  -1.687E+02  -2.174E+02  -2.173E+02  -1.798E+02  -1.334E+02  -7.490E+01   1.940E+01  -1.231E+00
IY=  9  -1.404E+02  -1.501E+02  -1.799E+02  -1.934E+02  -1.685E+02  -1.413E+02  -1.097E+02  -2.949E+01  -1.185E+00
IY=  8  -2.134E+02  -1.793E+02  -2.058E+02  -1.862E+02  -1.683E+02  -1.488E+02  -1.174E+02  -4.795E+01  -1.149E+00
IY=  7   6.260E+01  -2.055E+02  -3.428E+02  -2.347E+02  -1.900E+02  -1.570E+02  -1.112E+02  -5.085E+01  -1.120E+00
IY=  6   9.341E+02  -1.021E+01  -6.612E+02  -2.815E+02  -2.113E+02  -1.681E+02  -1.114E+02  -5.119E+01  -1.098E+00
IY=  5  -6.556E+03  -5.457E+03  -2.283E+02  -1.213E+02  -2.258E+02  -1.948E+02  -1.284E+02  -5.391E+01  -1.079E+00
IY=  4  -7.438E+03  -6.657E+03  -2.365E+02   4.629E+01  -2.426E+02  -2.179E+02  -1.619E+02  -5.264E+01  -1.061E+00
IY=  3  -5.049E+03  -3.895E+03  -3.578E+02  -1.623E+02  -2.264E+02  -2.203E+02  -1.609E+02  -2.680E+01  -1.052E+00
IY=  2   9.499E+02   4.523E+01  -4.635E+02  -2.742E+02  -2.180E+02  -2.160E+02  -1.389E+02   2.824E+01  -1.042E+00
IY=  1   4.356E+02   1.028E+02  -1.084E+02  -1.305E+02  -1.597E+02  -2.113E+02  -1.564E+02   1.472E+02  -1.035E+00
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -9.027E-03  -1.833E-02  -3.302E-02  -4.709E-02  -6.114E-02  -6.924E-02  -7.198E-02   5.870E-04
IY= 22   8.887E-03   1.661E-02   2.456E-02   2.669E-02   2.029E-02   4.463E-03  -1.758E-02   2.798E-02
IY= 21   3.777E-03   6.790E-03   8.555E-03   5.711E-03  -5.368E-03  -2.175E-02  -3.932E-02   1.722E-02
IY= 20  -5.529E-04  -1.533E-03  -4.769E-03  -1.085E-02  -2.287E-02  -3.668E-02  -4.988E-02   1.291E-02
IY= 19   2.550E-03   4.978E-03   8.123E-03   1.045E-02   1.182E-02   8.780E-03  -3.804E-03   4.484E-02
IY= 18   8.872E-03   1.766E-02   3.207E-02   4.983E-02   7.997E-02   1.139E-01   1.332E-01   1.725E-01
IY= 17   1.255E-02   2.414E-02   4.444E-02   7.207E-02   1.259E-01   2.021E-01   2.886E-01   4.227E-01
IY= 16   6.544E-03   1.664E-02   3.926E-02   7.561E-02   1.570E-01   2.999E-01   5.559E-01   1.155E+00
IY= 15  -1.763E+00  -2.765E+00  -3.598E+00  -4.107E+00  -4.591E+00  -4.995E+00  -5.465E+00  -4.556E+00
IY= 14  -5.835E-01  -1.043E+00  -1.583E+00  -1.983E+00  -2.378E+00  -2.654E+00  -2.837E+00  -3.071E-08
IY= 13  -1.986E-01  -4.990E-01  -1.023E+00  -1.570E+00  -2.113E+00  -2.408E+00  -2.607E+00  -1.929E-17
IY= 12   2.891E-01   1.415E-01  -4.232E-01  -1.032E+00  -1.813E+00  -2.411E+00  -2.749E+00   1.952E-15
IY= 11   3.340E-01   1.008E+01   1.564E+01   1.909E+01   2.084E+01   2.038E+01   1.784E+01   1.149E-07
IY= 10   1.692E+00   4.978E+00   7.043E+00   6.427E+00   6.279E+00   6.059E+00   5.667E+00   1.814E-08
IY=  9   9.999E-01   2.497E+00   3.444E+00   2.849E+00  -1.378E+00  -4.026E+00  -2.071E+00   6.453E-12
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IY=  8  -1.627E+00   6.047E-01  -1.731E+00  -3.123E+00  -6.480E+00  -6.268E+00  -5.216E+00   9.482E-14
IY=  7  -5.895E+00  -1.571E+00  -9.851E+00  -9.494E+00  -9.954E+00  -7.903E+00  -6.951E+00   1.545E-14
IY=  6  -1.434E+01  -1.557E+01  -2.076E+01  -1.240E+01  -8.650E+00  -8.474E+00  -7.543E+00   3.579E-14
IY=  5   2.025E+01   3.674E+01   1.227E+01  -1.104E+01  -1.008E+01  -8.541E+00  -7.286E+00   9.881E-14
IY=  4   3.146E+01   5.775E+01   2.465E+01  -2.125E+00  -9.700E+00  -7.537E+00  -5.172E+00   2.590E-13
IY=  3   1.363E+01   3.109E+01   8.663E+00  -7.835E+00   1.701E+00   5.938E+00   4.244E+00   6.119E-09
IY=  2  -6.298E+00  -8.721E+00  -1.361E+01  -8.226E+00   8.602E+00   1.301E+01   1.070E+01   4.922E-08
IY=  1   3.633E+00   8.192E+00  -1.439E+00   1.722E-01   1.491E+01   2.724E+01   2.722E+01   2.495E-07
 IX=      1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -4.547E-01  -4.396E-01  -4.068E-01  -3.512E-01  -2.793E-01  -2.017E-01  -1.382E-01  -9.028E-02  -7.631E-02
IY= 21  -3.501E-01  -3.430E-01  -3.261E-01  -2.971E-01  -2.611E-01  -2.266E-01  -2.000E-01  -1.745E-01  -1.857E-01
IY= 20  -2.567E-01  -2.549E-01  -2.503E-01  -2.435E-01  -2.375E-01  -2.345E-01  -2.288E-01  -2.106E-01  -2.360E-01
IY= 19  -1.879E-01  -1.897E-01  -1.945E-01  -2.051E-01  -2.217E-01  -2.421E-01  -2.536E-01  -2.437E-01  -2.833E-01
IY= 18  -1.006E-01  -1.045E-01  -1.154E-01  -1.385E-01  -1.757E-01  -2.317E-01  -2.960E-01  -3.501E-01  -4.597E-01
IY= 17  -6.569E-02  -7.006E-02  -8.080E-02  -1.024E-01  -1.386E-01  -1.995E-01  -2.888E-01  -4.151E-01  -6.668E-01
IY= 16  -2.706E-02  -3.371E-02  -4.200E-02  -5.696E-02  -8.221E-02  -1.306E-01  -2.229E-01  -4.127E-01  -1.160E+00
IY= 15  -2.335E-12  -2.447E-12  -4.190E-12  -5.295E-12  -1.093E-11  -2.193E-11  -5.445E-11  -2.574E-07  -2.448E+00
IY= 14  -2.138E+00  -1.279E+00  -7.544E-01  -4.943E-01  -3.614E-01  -3.033E-01  -3.476E-01  -7.753E-01   1.300E-01
IY= 13  -3.418E+00  -2.274E+00  -1.508E+00  -1.030E+00  -7.514E-01  -6.057E-01  -5.728E-01  -4.350E-01   2.765E-01
IY= 12  -3.114E+00  -2.156E+00  -1.567E+00  -1.219E+00  -8.389E-01  -5.842E-01  -5.690E-01  -3.879E-01   2.703E-01
IY= 11  -8.097E-09  -5.793E-09  -3.083E-09   1.105E-08   3.935E-08   4.076E-08   2.917E-08   9.867E-10   2.286E-01
IY= 10  -5.671E+00  -6.358E+00  -3.015E+00   1.228E-01   2.389E+00   2.692E+00   1.882E+00  -1.288E+00   1.909E-01
IY=  9  -4.366E+00  -4.504E+00  -4.456E+00  -3.888E+00  -2.295E-01   9.419E-01   1.769E+00  -1.766E+00   1.647E-01
IY=  8  -7.208E+00  -6.837E+00  -7.530E+00  -5.171E+00  -1.551E+00   4.620E-01   3.094E+00  -1.267E+00   1.424E-01
IY=  7   3.352E+00  -1.005E+01  -1.343E+01  -7.460E+00  -2.538E+00   1.203E+00   2.956E+00  -5.641E-01   1.220E-01
IY=  6   3.321E+01   1.180E+01  -1.988E+01  -7.036E+00  -2.346E+00   1.059E+00   1.829E+00   8.526E-01   1.035E-01
IY=  5   5.762E+01   3.217E+01  -1.692E+01   7.419E-01  -3.203E+00  -1.793E+00   7.797E-01   2.614E+00   8.806E-02
IY=  4   1.524E+01   7.237E+00  -1.094E+01  -4.434E+00  -3.888E+00  -2.643E+00  -1.470E-01   5.090E+00   7.083E-02
IY=  3  -2.698E+01  -1.051E+01   1.388E+01   1.389E+00  -5.284E-01  -6.070E-01   1.939E+00   7.707E+00   5.255E-02
IY=  2  -4.917E+01  -2.224E+01   1.456E+01  -7.632E-01   1.739E+00   1.469E+00   1.997E+00   7.338E+00   4.393E-02
IY=  1  -3.091E+01  -1.050E+01   2.309E+01   1.119E+01   6.350E+00   5.382E+00   3.359E+00   7.598E+00   2.160E-02
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -1.863E+00  -1.787E+00  -1.620E+00  -1.343E+00  -9.985E-01  -6.298E-01  -3.291E-01  -1.079E-01  -3.784E-09
IY= 22  -9.045E-01  -8.731E-01  -8.001E-01  -6.685E-01  -4.880E-01  -2.809E-01  -1.037E-01   2.445E-02   8.955E-02
IY= 21  -4.966E-01  -4.795E-01  -4.385E-01  -3.623E-01  -2.553E-01  -1.303E-01  -2.399E-02   4.993E-02   9.104E-02
IY= 20  -2.845E-01  -2.748E-01  -2.512E-01  -2.068E-01  -1.443E-01  -7.018E-02  -7.088E-03   3.627E-02   6.158E-02
IY= 19  -1.768E-01  -1.726E-01  -1.626E-01  -1.435E-01  -1.152E-01  -7.880E-02  -4.453E-02  -1.546E-02  -4.322E-03
IY= 18  -9.988E-02  -9.897E-02  -9.742E-02  -9.401E-02  -8.776E-02  -7.739E-02  -6.542E-02  -4.963E-02  -4.588E-02
IY= 17  -4.999E-02  -5.067E-02  -5.288E-02  -5.663E-02  -6.145E-02  -6.690E-02  -7.290E-02  -7.091E-02  -8.781E-02
IY= 16   4.069E-02   3.782E-02   3.272E-02   2.457E-02   1.139E-02  -7.645E-03  -3.289E-02  -5.396E-02  -8.561E-02
IY= 15   3.731E+00   3.455E+00   3.223E+00   2.860E+00   2.455E+00   1.839E+00   1.142E+00   3.593E-01   1.318E-02
IY= 14   4.563E+00   4.943E+00   5.135E+00   4.973E+00   4.534E+00   3.660E+00   2.506E+00   1.135E+00   8.419E-01
IY= 13   6.019E+00   6.704E+00   7.177E+00   6.994E+00   6.335E+00   5.106E+00   3.483E+00   1.565E+00   1.058E+00
IY= 12   8.474E+00   9.089E+00   9.505E+00   9.273E+00   8.428E+00   6.679E+00   4.465E+00   2.003E+00   1.047E+00
IY= 11   6.889E+00  -4.229E+00  -1.084E+01  -1.291E+01  -1.312E+01  -1.237E+01  -1.159E+01  -1.035E+01   1.009E+00
IY= 10   1.142E+01   9.972E+00   6.174E+00   1.890E+00  -1.389E+00  -2.637E+00  -5.308E+00  -7.846E+00   9.758E-01
IY=  9   1.033E+01   9.119E+00   7.735E+00   5.867E+00   2.923E+00   1.594E+00  -3.197E+00  -5.933E+00   9.496E-01
IY=  8   1.877E+01   6.879E+00   5.810E+00   3.361E+00   2.400E+00   1.142E+00  -2.796E+00  -3.672E+00   9.276E-01
IY=  7   5.506E+01   2.727E+01   5.959E+00   2.740E+00   2.082E+00  -4.713E-01  -2.940E+00  -1.372E+00   9.090E-01
IY=  6   1.614E+02   1.044E+02   4.760E+00   2.382E+00  -1.941E-01  -2.761E+00  -3.518E+00  -1.437E+00   8.939E-01
IY=  5   8.288E+02   7.971E+02   1.131E+02   2.343E+01   1.329E+00  -1.405E+00  -4.499E+00  -2.367E+00   8.811E-01
IY=  4   8.621E+02   8.235E+02   1.635E+02   3.905E+01   5.533E+00  -5.600E-01  -3.807E+00  -3.564E+00   8.696E-01
IY=  3   8.013E+02   7.742E+02   9.804E+01   2.005E+01   1.237E+00  -1.997E+00  -5.263E+00  -5.250E+00   8.607E-01
IY=  2   1.103E+02   7.021E+01   1.089E+01   7.762E+00   1.122E+00  -3.262E+00  -5.882E+00  -6.325E+00   8.501E-01
IY=  1   2.938E+01   1.223E+01   2.755E+00   1.210E+00  -3.620E-01  -4.145E+00  -8.360E+00  -1.087E+01   8.364E-01
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.478E-01   5.612E-01   5.849E-01   5.945E-01   5.613E-01   4.659E-01   3.483E-01   2.403E-01   2.110E-01
IY= 22   3.606E-01   3.615E-01   3.616E-01   3.538E-01   3.294E-01   2.805E-01   2.215E-01   1.638E-01   1.543E-01
IY= 21   2.041E-01   2.035E-01   2.015E-01   1.953E-01   1.823E-01   1.598E-01   1.331E-01   1.061E-01   1.091E-01
IY= 20   1.078E-01   1.078E-01   1.076E-01   1.066E-01   1.039E-01   9.771E-02   8.821E-02   7.676E-02   8.568E-02
IY= 19   5.707E-02   5.764E-02   5.926E-02   6.233E-02   6.621E-02   6.935E-02   6.950E-02   6.640E-02   8.107E-02
IY= 18   4.541E-02   4.536E-02   4.699E-02   5.188E-02   6.069E-02   7.446E-02   9.183E-02   1.146E-01   1.542E-01
IY= 17   4.323E-02   3.996E-02   3.991E-02   4.475E-02   5.588E-02   7.925E-02   1.242E-01   2.328E-01   4.661E-01
IY= 16   2.547E-05   2.372E-05   2.744E-05   5.246E-05   1.573E-04   5.157E-04   1.586E-03   5.501E-03   6.155E-01
IY= 15   1.052E-01   1.054E-01   1.246E-01   1.384E-01   1.489E-01   1.566E-01   1.690E-01   1.505E-01   1.782E+00
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IY= 14   2.364E-01   3.842E-01   4.121E-01   3.085E-01   1.874E-01   9.005E-02   4.209E-02   1.137E-02   5.615E-03
IY= 13   3.215E-01   4.417E-01   3.737E-01   2.951E-01   2.017E-01   1.154E-01   5.625E-02   1.723E-02   8.540E-03
IY= 12   3.493E-01   3.971E-01   4.310E-01   4.141E-01   3.544E-01   2.459E-01   1.402E-01   3.051E-02   8.312E-03
IY= 11   2.468E-01   2.346E-01   1.271E+00   2.024E+00   2.430E+00   2.458E+00   2.149E+00   6.910E-01   7.687E-03
IY= 10   1.070E+00   9.319E-01   1.441E+00   3.716E+00   2.119E+01   3.257E+01   2.138E+01   3.185E-01   7.172E-03
IY=  9   1.858E+00   1.458E+00   1.599E+00   2.968E+00   3.265E+01   2.946E+01   5.651E+00   1.953E-01   6.786E-03
IY=  8   4.379E+00   3.025E+00   3.868E+00   1.115E+01   3.320E+01   7.324E+00   1.126E+00   8.098E-02   6.471E-03
IY=  7   1.678E+01   9.185E+00   1.401E+01   2.721E+01   1.558E+01   1.265E+00   3.742E-01   1.291E-02   6.212E-03
IY=  6   5.498E+01   6.241E+01   5.781E+01   2.061E+01   1.110E+01   9.888E-01   1.609E-01   3.142E-02   6.006E-03
IY=  5   3.590E+01   3.780E+01   4.573E+01   4.465E+00   2.822E+00   9.536E-01   2.322E-01   1.121E-01   5.834E-03
IY=  4   3.468E+01   3.571E+01   1.113E+01   1.692E+00   2.080E+00   9.665E-01   6.691E-01   2.713E-01   5.682E-03
IY=  3   3.515E+01   3.687E+01   1.230E+01   1.792E+00   5.270E+00   3.709E+00   2.648E+00   4.102E-01   5.567E-03
IY=  2   8.348E+00   1.628E+01   8.558E+00   3.162E+00   6.847E+00   6.345E+00   5.535E+00   4.621E-01   5.437E-03
IY=  1   3.552E+00   8.425E-01   1.044E-01   1.263E-02   2.857E-01   1.961E+00   3.307E+00   1.071E+00   5.275E-03
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.296E-01   1.337E-01   1.406E-01   1.406E-01   1.246E-01   9.032E-02   5.581E-02   3.027E-02   2.280E-02
IY= 22   6.207E-02   6.225E-02   6.208E-02   5.936E-02   5.197E-02   3.914E-02   2.603E-02   1.545E-02   1.289E-02
IY= 21   2.684E-02   2.667E-02   2.614E-02   2.456E-02   2.148E-02   1.677E-02   1.203E-02   8.078E-03   7.811E-03
IY= 20   1.074E-02   1.067E-02   1.049E-02   1.005E-02   9.230E-03   7.893E-03   6.364E-03   4.971E-03   5.512E-03
IY= 19   4.233E-03   4.247E-03   4.312E-03   4.434E-03   4.561E-03   4.562E-03   4.347E-03   4.017E-03   5.198E-03
IY= 18   2.785E-03   2.748E-03   2.841E-03   3.173E-03   3.772E-03   4.705E-03   5.940E-03   7.974E-03   1.445E-02
IY= 17   2.845E-03   2.417E-03   2.307E-03   2.621E-03   3.479E-03   5.592E-03   1.087E-02   3.498E-02   1.380E-01
IY= 16   1.832E-07   1.646E-07   2.049E-07   5.416E-07   2.813E-06   1.669E-05   9.004E-05   5.816E-04   3.984E-01
IY= 15   8.453E-02   8.474E-02   1.089E-01   1.276E-01   1.424E-01   1.535E-01   1.721E-01   1.446E-01   3.195E+00
IY= 14   1.821E-01   2.985E-01   3.244E-01   2.431E-01   1.421E-01   6.604E-02   2.931E-02   1.665E-03   6.066E-04
IY= 13   2.487E-01   3.339E-01   2.487E-01   1.814E-01   1.151E-01   6.138E-02   2.647E-02   3.107E-03   1.138E-03
IY= 12   2.565E-01   3.109E-01   3.516E-01   3.311E-01   2.622E-01   1.515E-01   6.523E-02   6.972E-03   1.092E-03
IY= 11   1.853E-01   1.717E-01   2.166E+00   4.352E+00   5.722E+00   5.821E+00   4.761E+00   8.284E-01   9.716E-04
IY= 10   1.945E+00   1.969E+00   3.873E+00   1.695E+01   2.189E+02   3.335E+02   2.042E+02   2.469E-01   8.756E-04
IY=  9   4.346E+00   3.638E+00   4.546E+00   1.165E+01   2.434E+02   2.344E+02   4.550E+01   1.186E-01   8.059E-04
IY=  8   1.494E+02   1.150E+01   1.920E+01   7.594E+01   2.716E+02   3.783E+01   6.253E+00   3.165E-02   7.504E-04
IY=  7   2.549E+03   1.152E+03   1.077E+02   2.190E+02   1.024E+02   9.084E+00   1.503E+00   2.015E-03   7.058E-04
IY=  6   1.528E+04   1.495E+04   1.808E+03   2.066E+02   8.782E+01   5.808E+00   3.583E-01   7.649E-03   6.709E-04
IY=  5   2.835E+04   2.990E+04   1.228E+04   7.027E+02   1.838E+01   5.164E+00   5.096E-01   5.154E-02   6.424E-04
IY=  4   2.727E+04   2.799E+04   4.252E+03   3.563E+02   1.511E+01   6.831E+00   3.624E+00   1.941E-01   6.174E-04
IY=  3   2.737E+04   2.870E+04   3.744E+03   2.190E+02   4.692E+01   3.501E+01   2.085E+01   3.609E-01   5.988E-04
IY=  2   2.776E+03   4.259E+03   2.867E+02   3.180E+01   7.796E+01   6.012E+01   4.507E+01   4.314E-01   5.779E-04
IY=  1   8.996E+00   1.039E+00   4.535E-02   1.909E-03   2.052E-01   3.692E+00   8.083E+00   1.506E+00   5.524E-04
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.086E+05   3.083E+05   3.075E+05   3.062E+05   3.046E+05   3.029E+05   3.012E+05   2.997E+05   2.993E+05
IY= 22   3.037E+05   3.037E+05   3.037E+05   3.034E+05   3.028E+05   3.019E+05   3.007E+05   2.995E+05   2.991E+05
IY= 21   3.016E+05   3.016E+05   3.016E+05   3.014E+05   3.008E+05   2.998E+05   2.987E+05   2.978E+05   2.977E+05
IY= 20   2.991E+05   2.990E+05   2.990E+05   2.987E+05   2.983E+05   2.977E+05   2.972E+05   2.968E+05   2.968E+05
IY= 19   2.973E+05   2.973E+05   2.972E+05   2.970E+05   2.969E+05   2.967E+05   2.965E+05   2.964E+05   2.964E+05
IY= 18   2.967E+05   2.966E+05   2.966E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05
IY= 17   2.965E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.963E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.961E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.963E+05   2.965E+05   2.967E+05   2.962E+05
IY= 10   2.961E+05   2.960E+05   2.960E+05   2.960E+05   2.961E+05   2.964E+05   2.969E+05   2.971E+05   2.962E+05
IY=  9   2.961E+05   2.961E+05   2.960E+05   2.961E+05   2.962E+05   2.969E+05   2.976E+05   2.972E+05   2.962E+05
IY=  8   2.961E+05   2.960E+05   2.960E+05   2.961E+05   2.964E+05   2.971E+05   2.977E+05   2.969E+05   2.962E+05
IY=  7   3.077E+05   3.000E+05   2.959E+05   2.961E+05   2.965E+05   2.973E+05   2.979E+05   2.967E+05   2.962E+05
IY=  6   4.667E+05   4.131E+05   2.957E+05   2.962E+05   2.967E+05   2.984E+05   2.991E+05   2.981E+05   2.962E+05
IY=  5   1.856E+06   1.879E+06   4.399E+05   3.061E+05   2.975E+05   2.998E+05   3.011E+05   2.998E+05   2.962E+05
IY=  4   1.837E+06   1.860E+06   5.165E+05   3.200E+05   2.985E+05   3.018E+05   3.040E+05   3.019E+05   2.962E+05
IY=  3   1.869E+06   1.893E+06   4.329E+05   3.058E+05   2.987E+05   3.015E+05   3.032E+05   3.044E+05   2.962E+05
IY=  2   4.577E+05   3.908E+05   2.964E+05   2.976E+05   2.997E+05   3.020E+05   3.029E+05   3.053E+05   2.962E+05
IY=  1   3.163E+05   3.044E+05   2.978E+05   2.998E+05   3.031E+05   3.053E+05   3.071E+05   3.088E+05   2.963E+05
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.083E-01   2.119E-01   2.190E-01   2.262E-01   2.276E-01   2.163E-01   1.956E-01   1.717E-01   1.757E-01
IY= 22   1.886E-01   1.889E-01   1.896E-01   1.897E-01   1.879E-01   1.810E-01   1.696E-01   1.562E-01   1.662E-01
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IY= 21   1.397E-01  1.398E-01  1.399E-01  1.398E-01  1.393E-01  1.370E-01  1.326E-01  1.253E-01  1.373E-01
IY= 20   9.745E-02  9.797E-02  9.924E-02  1.018E-01  1.053E-01  1.089E-01  1.100E-01  1.067E-01  1.199E-01
IY= 19   6.924E-02  7.041E-02  7.330E-02  7.885E-02  8.653E-02  9.488E-02  1.000E-01  9.878E-02  1.138E-01
IY= 18   6.663E-02  6.738E-02  6.994E-02  7.636E-02  8.790E-02  1.061E-01  1.278E-01  1.484E-01  1.480E-01
IY= 17   5.911E-02  5.946E-02  6.215E-02  6.877E-02  8.078E-02  1.011E-01  1.277E-01  1.395E-01  1.417E-01
IY= 16   3.187E-04  3.075E-04  3.308E-04  4.574E-04  7.921E-04  1.434E-03  2.515E-03  4.684E-03  8.558E-02
IY= 15   1.179E-02  1.180E-02  1.283E-02  1.352E-02  1.402E-02  1.438E-02  1.494E-02  1.410E-02  8.948E-02
IY= 14   2.762E-02  4.450E-02  4.713E-02  3.524E-02  2.224E-02  1.105E-02  5.439E-03  6.988E-03  4.678E-03
IY= 13   3.739E-02  5.258E-02  5.054E-02  4.320E-02  3.182E-02  1.952E-02  1.076E-02  8.602E-03  5.769E-03
IY= 12   4.281E-02  4.565E-02  4.756E-02  4.662E-02  4.313E-02  3.592E-02  2.713E-02  1.202E-02  5.692E-03
IY= 11   2.960E-02  2.886E-02  6.717E-02  8.476E-02  9.286E-02  9.339E-02  8.734E-02  5.188E-02  5.474E-03
IY= 10   5.298E-02  3.969E-02  4.826E-02  7.332E-02  1.847E-01  2.862E-01  2.015E-01  3.698E-02  5.287E-03
IY=  9   7.152E-02  5.257E-02  5.060E-02  6.806E-02  3.941E-01  3.333E-01  6.318E-02  2.896E-02  5.143E-03
IY=  8   1.155E-02  7.163E-02  7.012E-02  1.473E-01  3.652E-01  1.276E-01  1.824E-02  1.865E-02  5.022E-03
IY=  7   9.941E-03  6.594E-03  1.640E-01  3.043E-01  2.134E-01  1.585E-02  8.385E-03  7.446E-03  4.921E-03
IY=  6   1.780E-02  2.345E-02  1.663E-01  1.850E-01  1.263E-01  1.515E-02  6.499E-03  1.162E-02  4.838E-03
IY=  5   4.092E-03  4.300E-03  1.533E-02  2.554E-03  3.898E-02  1.585E-02  9.522E-03  2.194E-02  4.769E-03
IY=  4   3.969E-03  4.101E-03  2.621E-03  7.235E-04  2.576E-02  1.231E-02  1.112E-02  3.413E-02  4.706E-03
IY=  3   4.064E-03  4.263E-03  3.637E-03  1.320E-03  5.328E-02  3.536E-02  3.027E-02  4.197E-02  4.658E-03
IY=  2   2.260E-03  5.601E-03  2.299E-02  2.829E-02  5.412E-02  6.027E-02  6.118E-02  4.455E-02  4.603E-03
IY=  1   1.262E-01  6.146E-02  2.164E-02  7.526E-03  3.579E-02  9.377E-02  1.218E-01  6.854E-02  4.535E-03
 IX=       1          2          3          4          5          6          7          8          9
FIELD VALUES OF TMP1
IY= 23   3.074E+02  3.070E+02  3.063E+02  3.050E+02  3.034E+02  3.017E+02  3.000E+02  2.986E+02  2.981E+02
IY= 22   3.025E+02  3.025E+02  3.025E+02  3.022E+02  3.016E+02  3.007E+02  2.995E+02  2.983E+02  2.979E+02
IY= 21   3.004E+02  3.004E+02  3.004E+02  3.002E+02  2.996E+02  2.986E+02  2.976E+02  2.967E+02  2.965E+02
IY= 20   2.979E+02  2.978E+02  2.978E+02  2.975E+02  2.971E+02  2.965E+02  2.960E+02  2.956E+02  2.957E+02
IY= 19   2.961E+02  2.961E+02  2.960E+02  2.959E+02  2.957E+02  2.955E+02  2.953E+02  2.952E+02  2.952E+02
IY= 18   2.955E+02  2.955E+02  2.954E+02  2.953E+02  2.953E+02  2.952E+02  2.952E+02  2.951E+02  2.952E+02
IY= 17   2.953E+02  2.953E+02  2.952E+02  2.952E+02  2.951E+02  2.951E+02  2.951E+02  2.951E+02  2.951E+02
IY= 16   2.951E+02  2.951E+02  2.951E+02  2.951E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.951E+02
IY= 15   2.951E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.951E+02
IY= 14   2.951E+02  2.951E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02
IY= 13   2.952E+02  2.952E+02  2.952E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02
IY= 12   2.952E+02  2.952E+02  2.952E+02  2.951E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02
IY= 11   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.951E+02  2.953E+02  2.955E+02  2.950E+02
IY= 10   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.952E+02  2.957E+02  2.959E+02  2.950E+02
IY=  9   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.957E+02  2.965E+02  2.960E+02  2.950E+02
IY=  8   2.950E+02  2.950E+02  2.950E+02  2.950E+02  2.952E+02  2.959E+02  2.965E+02  2.957E+02  2.950E+02
IY=  7   3.065E+02  2.988E+02  2.950E+02  2.950E+02  2.953E+02  2.961E+02  2.967E+02  2.955E+02  2.950E+02
IY=  6   4.649E+02  4.114E+02  2.950E+02  2.950E+02  2.955E+02  2.973E+02  2.979E+02  2.969E+02  2.950E+02
IY=  5   1.849E+03  1.872E+03  4.381E+02  3.048E+02  2.963E+02  2.986E+02  2.999E+02  2.986E+02  2.950E+02
IY=  4   1.830E+03  1.853E+03  5.145E+02  3.187E+02  2.973E+02  3.006E+02  3.028E+02  3.007E+02  2.950E+02
IY=  3   1.861E+03  1.885E+03  4.312E+02  3.046E+02  2.976E+02  3.003E+02  3.020E+02  3.032E+02  2.950E+02
IY=  2   4.559E+02  3.893E+02  2.952E+02  2.964E+02  2.985E+02  3.008E+02  3.017E+02  3.041E+02  2.950E+02
IY=  1   3.150E+02  3.032E+02  2.966E+02  2.986E+02  3.018E+02  3.041E+02  3.059E+02  3.076E+02  2.951E+02
 IX=       1          2          3          4          5          6          7          8          9
FIELD VALUES OF RHO1
IY= 23   1.153E+00  1.154E+00  1.157E+00  1.162E+00  1.168E+00  1.174E+00  1.181E+00  1.187E+00  1.188E+00
IY= 22   1.171E+00  1.171E+00  1.171E+00  1.172E+00  1.175E+00  1.178E+00  1.183E+00  1.188E+00  1.189E+00
IY= 21   1.180E+00  1.179E+00  1.179E+00  1.180E+00  1.183E+00  1.187E+00  1.191E+00  1.194E+00  1.195E+00
IY= 20   1.189E+00  1.189E+00  1.190E+00  1.191E+00  1.192E+00  1.195E+00  1.197E+00  1.198E+00  1.198E+00
IY= 19   1.196E+00  1.197E+00  1.197E+00  1.197E+00  1.198E+00  1.199E+00  1.200E+00  1.200E+00  1.200E+00
IY= 18   1.199E+00  1.199E+00  1.199E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.200E+00
IY= 17   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 16   1.201E+00  1.201E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 15   1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00
IY= 14   1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00  1.201E+00
IY= 13   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00
IY= 12   1.199E+00  1.199E+00  1.199E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00  1.201E+00
IY= 11   1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.200E+00  1.201E+00
IY= 10   1.199E+00  1.199E+00  1.198E+00  1.198E+00  1.199E+00  1.199E+00  1.197E+00  1.197E+00  1.201E+00
IY=  9   1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.199E+00  1.196E+00  1.194E+00  1.196E+00  1.201E+00
IY=  8   1.198E+00  1.199E+00  1.199E+00  1.199E+00  1.198E+00  1.195E+00  1.194E+00  1.198E+00  1.201E+00
IY=  7   1.157E+00  1.183E+00  1.197E+00  1.198E+00  1.198E+00  1.194E+00  1.193E+00  1.198E+00  1.201E+00
IY=  6   7.692E-01  8.610E-01  1.193E+00  1.198E+00  1.196E+00  1.190E+00  1.188E+00  1.193E+00  1.201E+00
IY=  5   1.792E-01  1.791E-01  8.069E-01  1.161E+00  1.193E+00  1.184E+00  1.180E+00  1.186E+00  1.201E+00
IY=  4   1.794E-01  1.787E-01  6.870E-01  1.112E+00  1.189E+00  1.176E+00  1.168E+00  1.177E+00  1.201E+00
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IY=  3   1.809E-01   1.807E-01   8.188E-01   1.161E+00   1.188E+00   1.177E+00   1.171E+00   1.168E+00   1.201E+00
IY=  2   7.844E-01   9.105E-01   1.195E+00   1.192E+00   1.184E+00   1.175E+00   1.173E+00   1.165E+00   1.201E+00
IY=  1   1.129E+00   1.170E+00   1.193E+00   1.185E+00   1.172E+00   1.162E+00   1.157E+00   1.154E+00   1.200E+00
 IX=       1           2           3           4           5           6           7           8           9

************************************************************
TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    24 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 24, ISWEEP=  70, ISTEP=    1
FIELD VALUES OF P1
IY= 23  -8.445E-01  -8.621E-01  -8.756E-01  -8.918E-01  -9.034E-01  -9.069E-01  -9.037E-01  -8.668E-01  -8.928E-01
IY= 22  -8.393E-01  -8.343E-01  -8.388E-01  -8.464E-01  -8.551E-01  -8.631E-01  -8.680E-01  -8.453E-01  -8.622E-01
IY= 21  -8.902E-01  -8.878E-01  -8.880E-01  -8.884E-01  -8.890E-01  -8.895E-01  -8.895E-01  -8.671E-01  -8.822E-01
IY= 20  -9.099E-01  -9.099E-01  -9.098E-01  -9.097E-01  -9.098E-01  -9.101E-01  -9.104E-01  -8.904E-01  -9.046E-01
IY= 19  -9.184E-01  -9.178E-01  -9.183E-01  -9.195E-01  -9.220E-01  -9.273E-01  -9.352E-01  -9.282E-01  -9.456E-01
IY= 18  -9.144E-01  -9.122E-01  -9.131E-01  -9.150E-01  -9.203E-01  -9.347E-01  -9.665E-01  -1.014E+00  -1.105E+00
IY= 17  -9.122E-01  -9.099E-01  -9.109E-01  -9.130E-01  -9.190E-01  -9.378E-01  -9.881E-01  -1.119E+00  -1.387E+00
IY= 16  -9.061E-01  -9.060E-01  -9.058E-01  -9.065E-01  -9.096E-01  -9.262E-01  -9.883E-01  -1.259E+00  -2.665E+00
IY= 15  -2.637E+01  -2.919E+01  -3.248E+01  -3.464E+01  -3.665E+01  -3.813E+01  -4.044E+01  -2.669E+01  -5.509E+00
IY= 14  -3.243E+01  -3.383E+01  -3.556E+01  -3.696E+01  -3.819E+01  -3.890E+01  -3.932E+01  -3.067E+01  -1.863E+00
IY= 13  -4.713E+01  -4.732E+01  -4.719E+01  -4.655E+01  -4.561E+01  -4.407E+01  -4.276E+01  -3.267E+01  -1.630E+00
IY= 12  -6.613E+01  -6.650E+01  -6.589E+01  -6.310E+01  -5.879E+01  -5.318E+01  -4.879E+01  -3.552E+01  -1.423E+00
IY= 11  -5.648E+01  -5.638E+01  -3.508E+01  -2.018E+01  -7.374E+00   3.455E+00   5.181E+01   1.522E+02  -1.294E+00
IY= 10  -1.424E+02  -1.662E+02  -1.979E+02  -2.027E+02  -1.716E+02  -1.277E+02  -5.939E+01   4.200E+01  -1.222E+00
IY=  9  -1.131E+02  -1.270E+02  -1.635E+02  -1.887E+02  -1.762E+02  -1.507E+02  -1.071E+02  -1.836E+01  -1.177E+00
IY=  8  -7.417E+01  -1.419E+02  -1.864E+02  -1.810E+02  -1.746E+02  -1.568E+02  -1.186E+02  -4.270E+01  -1.142E+00
IY=  7   5.909E+02  -2.673E+01  -3.209E+02  -2.291E+02  -1.984E+02  -1.640E+02  -1.097E+02  -4.946E+01  -1.113E+00
IY=  6   1.655E+03   2.197E+02  -6.809E+02  -2.539E+02  -2.169E+02  -1.709E+02  -1.081E+02  -5.017E+01  -1.092E+00
IY=  5  -5.181E+03  -3.329E+03  -5.643E+02  -8.010E+01  -2.321E+02  -2.028E+02  -1.240E+02  -5.170E+01  -1.073E+00
IY=  4  -7.880E+03  -5.585E+03  -8.070E+02   2.910E+02  -2.184E+02  -2.245E+02  -1.602E+02  -4.824E+01  -1.056E+00
IY=  3  -2.506E+03  -9.952E+02  -4.688E+02  -6.162E+01  -2.199E+02  -2.162E+02  -1.485E+02  -1.792E+01  -1.047E+00
IY=  2   1.543E+03   4.045E+02  -5.118E+02  -2.833E+02  -2.104E+02  -1.952E+02  -1.144E+02   4.140E+01  -1.037E+00
IY=  1   8.081E+02   3.846E+02  -3.663E+01  -1.280E+02  -1.541E+02  -1.902E+02  -9.736E+01   2.119E+02  -1.030E+00
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -1.220E-02  -2.390E-02  -4.069E-02  -5.523E-02  -6.835E-02  -7.477E-02  -7.568E-02  -4.162E-04
IY= 22   8.177E-03   1.532E-02   2.269E-02   2.464E-02   1.842E-02   2.955E-03  -1.870E-02   2.765E-02
IY= 21   3.881E-03   6.975E-03   8.826E-03   6.019E-03  -5.111E-03  -2.165E-02  -3.939E-02   1.728E-02
IY= 20  -2.892E-04  -1.068E-03  -4.116E-03  -1.017E-02  -2.235E-02  -3.640E-02  -4.982E-02   1.303E-02
IY= 19   2.608E-03   5.078E-03   8.223E-03   1.045E-02   1.161E-02   8.359E-03  -4.364E-03   4.465E-02
IY= 18   8.837E-03   1.762E-02   3.198E-02   4.967E-02   7.956E-02   1.130E-01   1.320E-01   1.716E-01
IY= 17   1.250E-02   2.408E-02   4.429E-02   7.171E-02   1.251E-01   2.005E-01   2.865E-01   4.221E-01
IY= 16   6.965E-03   1.736E-02   4.017E-02   7.633E-02   1.571E-01   2.988E-01   5.542E-01   1.161E+00
IY= 15  -1.761E+00  -2.793E+00  -3.681E+00  -4.240E+00  -4.755E+00  -5.158E+00  -5.619E+00  -4.670E+00
IY= 14  -6.179E-01  -1.104E+00  -1.671E+00  -2.090E+00  -2.513E+00  -2.810E+00  -2.966E+00  -5.217E-08
IY= 13  -2.789E-01  -6.405E-01  -1.206E+00  -1.766E+00  -2.310E+00  -2.610E+00  -2.780E+00  -6.868E-17
IY= 12   2.315E-01   2.017E-03  -6.964E-01  -1.400E+00  -2.229E+00  -2.792E+00  -3.029E+00   7.033E-15
IY= 11   7.224E+00   1.235E+01   1.758E+01   2.102E+01   2.265E+01   2.193E+01   1.906E+01   2.024E-07
IY= 10   3.822E+00   7.114E+00   1.034E+01   1.192E+01   1.155E+01   1.039E+01   8.590E+00   4.238E-08
IY=  9   2.701E+00   4.847E+00   5.319E+00   3.262E+00   3.004E-01   5.981E-01   1.372E+00   5.939E-09
IY=  8   4.053E+00   4.934E+00   1.804E+00  -1.145E+00  -3.411E+00  -9.449E-01  -2.354E+00   7.437E-11
IY=  7   5.379E+00   9.600E+00  -5.573E+00  -6.398E+00  -4.464E+00  -2.934E+00  -5.461E+00   2.808E-12
IY=  6  -3.879E-01   8.088E-01  -1.901E+01  -5.658E+00  -8.141E-01  -5.199E+00  -7.017E+00   1.026E-13
IY=  5   7.156E+00   1.520E+01   6.290E+00  -3.249E+00  -3.840E+00  -4.534E+00  -6.408E+00   2.789E-13
IY=  4   1.569E+01   2.568E+01   1.585E+01   1.251E+01   1.763E+00  -4.797E+00  -4.518E+00   7.545E-13
IY=  3   2.706E+00   2.510E+01   6.926E+00   5.199E+00   7.757E+00   8.382E+00   5.632E+00   1.374E-08
IY=  2   9.163E+00   1.287E+01  -8.310E+00   7.402E+00   1.586E+01   1.614E+01   1.191E+01   8.059E-08
IY=  1   1.835E+01   2.910E+01   3.335E+01   3.732E+01   4.080E+01   4.020E+01   3.410E+01   5.389E-07
 IX=       1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -4.595E-01  -4.440E-01  -4.106E-01  -3.539E-01  -2.807E-01  -2.016E-01  -1.369E-01  -8.832E-02  -7.369E-02
IY= 21  -3.463E-01  -3.387E-01  -3.209E-01  -2.903E-01  -2.523E-01  -2.161E-01  -1.886E-01  -1.634E-01  -1.738E-01
IY= 20  -2.473E-01  -2.451E-01  -2.397E-01  -2.316E-01  -2.240E-01  -2.199E-01  -2.140E-01  -1.966E-01  -2.210E-01
IY= 19  -1.758E-01  -1.773E-01  -1.817E-01  -1.914E-01  -2.069E-01  -2.265E-01  -2.378E-01  -2.286E-01  -2.672E-01
IY= 18  -9.088E-02  -9.461E-02  -1.052E-01  -1.276E-01  -1.638E-01  -2.188E-01  -2.824E-01  -3.365E-01  -4.454E-01
IY= 17  -5.845E-02  -6.265E-02  -7.297E-02  -9.377E-02  -1.289E-01  -1.886E-01  -2.769E-01  -4.030E-01  -6.552E-01
IY= 16  -2.351E-02  -2.993E-02  -3.768E-02  -5.160E-02  -7.525E-02  -1.220E-01  -2.120E-01  -4.011E-01  -1.152E+00
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IY= 15  -4.360E-12  -4.638E-12  -8.109E-12  -1.036E-11  -2.139E-11  -4.314E-11  -1.085E-10  -5.439E-07  -2.463E+00
IY= 14  -2.276E+00  -1.451E+00  -9.339E-01  -6.584E-01  -5.008E-01  -4.140E-01  -4.221E-01  -8.056E-01   2.007E-01
IY= 13  -3.917E+00  -2.789E+00  -2.005E+00  -1.482E+00  -1.161E+00  -9.569E-01  -8.181E-01  -5.325E-01   3.617E-01
IY= 12  -4.013E+00  -3.000E+00  -2.314E+00  -1.867E+00  -1.421E+00  -1.103E+00  -9.562E-01  -5.463E-01   3.343E-01
IY= 11  -2.275E-08   7.178E-09   9.221E-08   1.386E-07   1.854E-07   1.509E-07   1.043E-07   1.603E-08   2.733E-01
IY= 10  -4.216E+00   2.406E+00   6.411E+00   7.688E+00   7.028E+00   5.631E+00   3.982E+00   5.310E-01   2.239E-01
IY=  9  -3.042E-01  -1.455E+00  -2.336E-02   3.075E+00   4.500E+00   3.968E+00   4.157E+00   1.552E-01   1.914E-01
IY=  8   9.137E+00  -2.122E+00  -5.878E+00  -4.085E+00   3.311E-01   2.464E+00   5.375E+00  -1.211E-01   1.643E-01
IY=  7   2.474E+01   4.871E+00  -1.042E+01  -7.654E+00  -1.934E+00   2.713E+00   4.517E+00  -3.331E-01   1.402E-01
IY=  6   3.807E+01   1.528E+01  -1.674E+01  -6.327E+00  -1.779E+00   2.605E+00   2.604E+00   6.493E-01   1.185E-01
IY=  5   1.723E+01   8.094E+00  -1.347E+01   6.004E+00  -1.354E+00  -2.810E-01   1.372E+00   2.567E+00   1.006E-01
IY=  4   3.135E+00  -3.147E+00  -1.214E+01   6.943E-01  -8.813E-01  -1.648E+00   4.898E-02   4.931E+00   8.080E-02
IY=  3   3.588E+00   1.654E+01   1.613E+01  -3.526E+00  -2.197E+00  -7.151E-01   1.095E+00   7.417E+00   5.983E-02
IY=  2  -2.059E+01  -1.112E+01   7.209E+00  -1.003E+01  -2.755E+00  -7.419E-01   8.817E-01   6.610E+00   5.000E-02
IY=  1  -3.410E+01  -1.614E+01   5.695E+00   8.199E+00   6.878E+00   4.443E+00   2.395E+00   7.038E+00   2.453E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -1.912E+00  -1.833E+00  -1.660E+00  -1.375E+00  -1.023E+00  -6.453E-01  -3.375E-01  -1.113E-01  -8.097E-09
IY= 22  -9.070E-01  -8.749E-01  -8.004E-01  -6.665E-01  -4.835E-01  -2.744E-01  -9.645E-02   3.104E-02   9.635E-02
IY= 21  -4.891E-01  -4.718E-01  -4.303E-01  -3.535E-01  -2.464E-01  -1.226E-01  -1.820E-02   5.341E-02   9.384E-02
IY= 20  -2.740E-01  -2.644E-01  -2.409E-01  -1.970E-01  -1.358E-01  -6.416E-02  -3.875E-03   3.703E-02   6.135E-02
IY= 19  -1.662E-01  -1.622E-01  -1.528E-01  -1.350E-01  -1.091E-01  -7.604E-02  -4.518E-02  -1.882E-02  -9.806E-03
IY= 18  -9.269E-02  -9.196E-02  -9.108E-02  -8.918E-02  -8.548E-02  -7.934E-02  -7.243E-02  -6.142E-02  -6.426E-02
IY= 17  -4.523E-02  -4.608E-02  -4.895E-02  -5.418E-02  -6.165E-02  -7.174E-02  -8.410E-02  -9.063E-02  -1.233E-01
IY= 16   4.538E-02   4.221E-02   3.609E-02   2.580E-02   8.127E-03  -1.848E-02  -5.628E-02  -9.579E-02  -1.546E-01
IY= 15   3.548E+00   3.244E+00   3.013E+00   2.665E+00   2.279E+00   1.682E+00   1.007E+00   2.727E-01  -3.389E-02
IY= 14   4.477E+00   4.855E+00   5.053E+00   4.898E+00   4.459E+00   3.573E+00   2.411E+00   1.055E+00   9.128E-01
IY= 13   6.264E+00   6.984E+00   7.429E+00   7.209E+00   6.499E+00   5.195E+00   3.509E+00   1.530E+00   1.046E+00
IY= 12   1.000E+01   1.065E+01   1.100E+01   1.058E+01   9.477E+00   7.453E+00   5.008E+00   2.209E+00   1.020E+00
IY= 11  -2.806E+00  -8.211E+00  -1.098E+01  -1.116E+01  -1.018E+01  -8.980E+00  -7.993E+00  -6.970E+00   9.827E-01
IY= 10   1.039E+01   3.712E+00  -8.218E-01  -2.624E+00  -3.081E+00  -3.286E+00  -4.259E+00  -5.652E+00   9.516E-01
IY=  9   1.507E+01   6.371E+00   2.704E+00   1.523E+00   1.085E+00   2.314E-01  -2.613E+00  -4.742E+00   9.279E-01
IY=  8   2.587E+01   1.144E+01   4.307E+00   2.515E+00   1.733E+00   7.994E-02  -2.764E+00  -3.257E+00   9.082E-01
IY=  7   5.254E+01   2.817E+01   1.112E+01   4.371E+00   1.212E+00  -1.350E+00  -3.186E+00  -1.235E+00   8.916E-01
IY=  6   1.381E+02   9.373E+01   2.118E+01   4.020E+00  -2.300E+00  -3.109E+00  -3.687E+00  -1.107E+00   8.779E-01
IY=  5   8.025E+02   7.679E+02   1.196E+02   2.518E+01   1.962E+00  -2.071E+00  -4.510E+00  -1.655E+00   8.666E-01
IY=  4   8.493E+02   8.191E+02   1.894E+02   3.637E+01   9.713E+00   3.369E+00  -3.282E+00  -2.225E+00   8.563E-01
IY=  3   7.514E+02   6.980E+02   9.723E+01   1.121E+01  -9.712E-01  -2.360E+00  -4.145E+00  -2.862E+00   8.475E-01
IY=  2   9.298E+01   6.182E+01   2.285E+01   5.421E+00   1.341E+00  -9.326E-01  -3.003E+00  -2.056E+00   8.380E-01
IY=  1   2.369E+01   6.759E+00  -3.747E+00  -5.700E+00  -5.462E+00  -5.948E+00  -6.394E+00  -6.622E+00   8.249E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.519E-01   5.667E-01   5.930E-01   6.054E-01   5.737E-01   4.774E-01   3.573E-01   2.465E-01   2.166E-01
IY= 22   3.644E-01   3.655E-01   3.658E-01   3.580E-01   3.332E-01   2.832E-01   2.229E-01   1.642E-01   1.548E-01
IY= 21   2.038E-01   2.032E-01   2.010E-01   1.945E-01   1.809E-01   1.578E-01   1.309E-01   1.040E-01   1.073E-01
IY= 20   1.053E-01   1.052E-01   1.048E-01   1.036E-01   1.007E-01   9.445E-02   8.519E-02   7.414E-02   8.322E-02
IY= 19   5.371E-02   5.426E-02   5.581E-02   5.878E-02   6.260E-02   6.583E-02   6.627E-02   6.352E-02   7.826E-02
IY= 18   4.186E-02   4.178E-02   4.333E-02   4.804E-02   5.662E-02   7.023E-02   8.765E-02   1.106E-01   1.510E-01
IY= 17   3.985E-02   3.657E-02   3.642E-02   4.097E-02   5.160E-02   7.421E-02   1.180E-01   2.247E-01   4.600E-01
IY= 16   3.071E-05   2.845E-05   3.098E-05   5.428E-05   1.576E-04   5.160E-04   1.593E-03   5.565E-03   6.102E-01
IY= 15   9.765E-02   9.775E-02   1.193E-01   1.372E-01   1.515E-01   1.622E-01   1.765E-01   1.576E-01   1.772E+00
IY= 14   2.631E-01   4.133E-01   4.272E-01   3.136E-01   1.907E-01   9.225E-02   4.344E-02   1.078E-02   6.700E-03
IY= 13   3.646E-01   5.266E-01   4.539E-01   3.516E-01   2.341E-01   1.274E-01   5.860E-02   1.732E-02   8.676E-03
IY= 12   4.736E-01   5.310E-01   5.648E-01   5.295E-01   4.431E-01   3.042E-01   1.735E-01   3.655E-02   8.147E-03
IY= 11   3.057E-01   7.662E-01   1.525E+00   2.139E+00   2.469E+00   2.457E+00   2.087E+00   4.552E-01   7.458E-03
IY= 10   2.150E+00   4.226E+00   8.596E+00   1.369E+01   4.047E+01   4.256E+01   2.139E+01   1.693E-01   6.941E-03
IY=  9   2.459E+00   3.299E+00   8.063E+00   1.840E+01   9.889E+01   6.933E+01   9.135E+00   1.223E-01   6.569E-03
IY=  8   7.701E+00   4.299E+00   8.808E+00   9.692E+01   1.103E+02   3.137E+01   1.979E+00   6.184E-02   6.271E-03
IY=  7   2.181E+01   2.172E+01   3.341E+01   1.337E+02   7.761E+01   5.909E+00   5.868E-01   1.071E-02   6.029E-03
IY=  6   7.905E+01   1.546E+02   8.372E+01   6.343E+01   3.259E+01   1.252E+00   1.758E-01   2.423E-02   5.835E-03
IY=  5   3.090E+01   3.431E+01   1.430E+02   8.633E+00   8.633E+00   1.962E+00   2.396E-01   9.364E-02   5.676E-03
IY=  4   2.870E+01   3.062E+01   2.424E+01   2.532E+00   1.165E+00   1.559E+00   5.044E-01   2.218E-01   5.534E-03
IY=  3   2.994E+01   3.286E+01   2.263E+01   1.924E+00   1.044E+00   1.217E+00   1.715E+00   2.886E-01   5.420E-03
IY=  2   1.122E+01   8.474E+01   1.445E+01   4.218E+00   6.293E+00   6.515E+00   5.384E+00   2.580E-01   5.300E-03
IY=  1   3.634E+00   2.534E+00   3.972E+00   5.048E+00   6.044E+00   6.475E+00   5.558E+00   9.547E-01   5.147E-03
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.323E-01   1.369E-01   1.448E-01   1.456E-01   1.296E-01   9.429E-02   5.833E-02   3.164E-02   2.384E-02
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IY= 22   6.353E-02   6.376E-02   6.366E-02   6.092E-02   5.331E-02   4.004E-02   2.650E-02   1.564E-02   1.304E-02
IY= 21   2.707E-02   2.690E-02   2.633E-02   2.468E-02   2.147E-02   1.664E-02   1.185E-02   7.923E-03   7.686E-03
IY= 20   1.054E-02   1.046E-02   1.026E-02   9.780E-03   8.926E-03   7.591E-03   6.104E-03   4.770E-03   5.331E-03
IY= 19   3.967E-03   3.978E-03   4.035E-03   4.143E-03   4.260E-03   4.274E-03   4.096E-03   3.812E-03   4.999E-03
IY= 18   2.512E-03   2.473E-03   2.559E-03   2.873E-03   3.450E-03   4.368E-03   5.620E-03   7.706E-03   1.435E-02
IY= 17   2.573E-03   2.156E-03   2.043E-03   2.328E-03   3.126E-03   5.122E-03   1.018E-02   3.410E-02   1.378E-01
IY= 16   2.425E-07   2.162E-07   2.458E-07   5.700E-07   2.820E-06   1.671E-05   9.061E-05   5.918E-04   4.116E-01
IY= 15   7.557E-02   7.569E-02   1.021E-01   1.258E-01   1.461E-01   1.618E-01   1.837E-01   1.550E-01   3.280E+00
IY= 14   2.136E-01   3.393E-01   3.535E-01   2.597E-01   1.537E-01   7.295E-02   3.261E-02   1.538E-03   7.905E-04
IY= 13   3.001E-01   4.355E-01   3.374E-01   2.441E-01   1.512E-01   7.634E-02   3.049E-02   3.131E-03   1.165E-03
IY= 12   4.050E-01   4.808E-01   5.274E-01   4.787E-01   3.664E-01   2.084E-01   8.977E-02   9.141E-03   1.060E-03
IY= 11   2.553E-01   1.013E+00   2.846E+00   4.726E+00   5.862E+00   5.819E+00   4.554E+00   4.429E-01   9.286E-04
IY= 10   7.944E+00   4.203E+01   1.136E+02   1.886E+02   5.732E+02   5.278E+02   2.280E+02   9.564E-02   8.336E-04
IY=  9   1.338E+02   6.023E+01   1.442E+02   3.313E+02   1.590E+03   9.137E+02   8.514E+01   5.875E-02   7.675E-04
IY=  8   7.927E+02   3.173E+02   2.043E+02   1.860E+03   1.845E+03   3.979E+02   1.232E+01   2.112E-02   7.160E-04
IY=  7   3.606E+03   3.216E+03   1.150E+03   2.560E+03   1.215E+03   5.883E+01   2.485E+00   1.523E-03   6.749E-04
IY=  6   2.059E+04   3.631E+04   3.057E+03   1.327E+03   3.734E+02   7.614E+00   3.930E-01   5.181E-03   6.425E-04
IY=  5   2.115E+04   2.375E+04   3.681E+04   1.288E+03   7.174E+01   1.263E+01   5.818E-01   3.936E-02   6.165E-04
IY=  4   1.947E+04   2.079E+04   7.368E+03   4.739E+02   6.984E+01   2.136E+01   2.491E+00   1.435E-01   5.935E-04
IY=  3   2.012E+04   2.224E+04   6.076E+03   2.718E+02   3.828E+01   1.729E+01   1.383E+01   2.129E-01   5.752E-04
IY=  2   3.153E+03   2.072E+04   1.897E+03   1.088E+02   8.018E+01   6.487E+01   4.562E+01   1.800E-01   5.562E-04
IY=  1   9.310E+00   5.423E+00   1.064E+01   1.525E+01   1.997E+01   2.215E+01   1.761E+01   1.267E+00   5.323E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.092E+05   3.088E+05   3.080E+05   3.067E+05   3.050E+05   3.031E+05   3.014E+05   2.999E+05   2.994E+05
IY= 22   3.043E+05   3.042E+05   3.041E+05   3.038E+05   3.031E+05   3.021E+05   3.008E+05   2.995E+05   2.991E+05
IY= 21   3.019E+05   3.019E+05   3.019E+05   3.016E+05   3.009E+05   2.998E+05   2.987E+05   2.978E+05   2.977E+05
IY= 20   2.991E+05   2.991E+05   2.990E+05   2.987E+05   2.983E+05   2.977E+05   2.972E+05   2.968E+05   2.968E+05
IY= 19   2.973E+05   2.972E+05   2.971E+05   2.970E+05   2.968E+05   2.966E+05   2.965E+05   2.964E+05   2.964E+05
IY= 18   2.966E+05   2.966E+05   2.965E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05
IY= 17   2.965E+05   2.965E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.963E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.964E+05   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.963E+05   2.964E+05   2.966E+05   2.968E+05   2.962E+05
IY= 10   2.961E+05   2.960E+05   2.960E+05   2.961E+05   2.962E+05   2.965E+05   2.970E+05   2.972E+05   2.962E+05
IY=  9   2.962E+05   2.961E+05   2.961E+05   2.961E+05   2.963E+05   2.971E+05   2.977E+05   2.974E+05   2.962E+05
IY=  8   2.986E+05   2.964E+05   2.961E+05   2.961E+05   2.965E+05   2.974E+05   2.980E+05   2.970E+05   2.962E+05
IY=  7   3.231E+05   3.063E+05   2.964E+05   2.962E+05   2.966E+05   2.979E+05   2.983E+05   2.967E+05   2.962E+05
IY=  6   4.887E+05   4.245E+05   2.962E+05   2.971E+05   2.968E+05   2.991E+05   2.995E+05   2.980E+05   2.962E+05
IY=  5   1.864E+06   1.891E+06   4.478E+05   3.110E+05   2.976E+05   3.006E+05   3.016E+05   2.998E+05   2.962E+05
IY=  4   1.835E+06   1.866E+06   5.459E+05   3.367E+05   3.042E+05   3.025E+05   3.049E+05   3.021E+05   2.962E+05
IY=  3   1.883E+06   1.909E+06   4.621E+05   3.140E+05   3.005E+05   3.019E+05   3.037E+05   3.046E+05   2.962E+05
IY=  2   4.850E+05   4.109E+05   3.039E+05   2.992E+05   3.003E+05   3.019E+05   3.028E+05   3.054E+05   2.962E+05
IY=  1   3.373E+05   3.192E+05   3.061E+05   3.048E+05   3.061E+05   3.075E+05   3.085E+05   3.097E+05   2.964E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.072E-01   2.111E-01   2.186E-01   2.265E-01   2.286E-01   2.176E-01   1.969E-01   1.729E-01   1.771E-01
IY= 22   1.881E-01   1.885E-01   1.892E-01   1.894E-01   1.874E-01   1.802E-01   1.687E-01   1.552E-01   1.653E-01
IY= 21   1.381E-01   1.381E-01   1.381E-01   1.379E-01   1.372E-01   1.347E-01   1.301E-01   1.229E-01   1.349E-01
IY= 20   9.471E-02   9.519E-02   9.639E-02   9.879E-02   1.023E-01   1.058E-01   1.070E-01   1.037E-01   1.169E-01
IY= 19   6.545E-02   6.661E-02   6.950E-02   7.506E-02   8.280E-02   9.125E-02   9.648E-02   9.527E-02   1.103E-01
IY= 18   6.278E-02   6.351E-02   6.602E-02   7.229E-02   8.363E-02   1.016E-01   1.230E-01   1.428E-01   1.431E-01
IY= 17   5.554E-02   5.583E-02   5.844E-02   6.490E-02   7.667E-02   9.677E-02   1.232E-01   1.333E-01   1.382E-01
IY= 16   3.499E-04   3.368E-04   3.515E-04   4.653E-04   7.927E-04   1.434E-03   2.520E-03   4.711E-03   8.142E-02
IY= 15   1.136E-02   1.136E-02   1.255E-02   1.346E-02   1.415E-02   1.464E-02   1.527E-02   1.443E-02   8.613E-02
IY= 14   2.916E-02   4.531E-02   4.646E-02   3.407E-02   2.129E-02   1.050E-02   5.208E-03   6.804E-03   5.110E-03
IY= 13   3.987E-02   5.731E-02   5.496E-02   4.558E-02   3.261E-02   1.913E-02   1.014E-02   8.625E-03   5.815E-03
IY= 12   4.986E-02   5.279E-02   5.444E-02   5.271E-02   4.822E-02   3.995E-02   3.017E-02   1.316E-02   5.635E-03
IY= 11   3.294E-02   5.215E-02   7.358E-02   8.713E-02   9.361E-02   9.338E-02   8.605E-02   4.211E-02   5.392E-03
IY= 10   5.237E-02   3.823E-02   5.856E-02   8.948E-02   2.572E-01   3.089E-01   1.807E-01   2.696E-02   5.201E-03
IY=  9   4.070E-03   1.626E-02   4.059E-02   9.197E-02   5.536E-01   4.735E-01   8.821E-02   2.292E-02   5.060E-03
IY=  8   6.734E-03   5.242E-03   3.419E-02   4.545E-01   5.931E-01   2.227E-01   2.860E-02   1.630E-02   4.944E-03
IY=  7   1.187E-02   1.320E-02   8.737E-02   6.283E-01   4.462E-01   5.341E-02   1.247E-02   6.783E-03   4.848E-03
IY=  6   2.732E-02   5.921E-02   2.064E-01   2.729E-01   2.559E-01   1.853E-02   7.080E-03   1.020E-02   4.769E-03
IY=  5   4.063E-03   4.463E-03   4.997E-02   5.209E-03   9.351E-02   2.744E-02   8.884E-03   2.005E-02   4.704E-03
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IY=  4   3.808E-03   4.059E-03   7.175E-03   1.218E-03   1.750E-03   1.024E-02   9.194E-03   3.086E-02   4.644E-03
IY=  3   4.012E-03   4.370E-03   7.587E-03   1.226E-03   2.562E-03   7.717E-03   1.914E-02   3.520E-02   4.596E-03
IY=  2   3.593E-03   3.119E-02   9.905E-03   1.473E-02   4.446E-02   5.889E-02   5.719E-02   3.329E-02   4.545E-03
IY=  1   1.276E-01   1.066E-01   1.334E-01   1.504E-01   1.646E-01   1.704E-01   1.579E-01   6.472E-02   4.479E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.080E+02   3.076E+02   3.068E+02   3.054E+02   3.038E+02   3.019E+02   3.002E+02   2.987E+02   2.982E+02
IY= 22   3.031E+02   3.030E+02   3.029E+02   3.026E+02   3.019E+02   3.009E+02   2.996E+02   2.984E+02   2.980E+02
IY= 21   3.007E+02   3.007E+02   3.007E+02   3.004E+02   2.997E+02   2.986E+02   2.976E+02   2.966E+02   2.965E+02
IY= 20   2.979E+02   2.979E+02   2.978E+02   2.975E+02   2.971E+02   2.965E+02   2.960E+02   2.956E+02   2.956E+02
IY= 19   2.961E+02   2.961E+02   2.960E+02   2.958E+02   2.956E+02   2.955E+02   2.953E+02   2.952E+02   2.952E+02
IY= 18   2.955E+02   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02
IY= 17   2.953E+02   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.951E+02
IY= 16   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.952E+02   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.952E+02   2.954E+02   2.956E+02   2.950E+02
IY= 10   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.953E+02   2.958E+02   2.960E+02   2.950E+02
IY=  9   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.951E+02   2.959E+02   2.965E+02   2.962E+02   2.950E+02
IY=  8   2.974E+02   2.952E+02   2.950E+02   2.950E+02   2.953E+02   2.962E+02   2.968E+02   2.959E+02   2.950E+02
IY=  7   3.218E+02   3.051E+02   2.952E+02   2.950E+02   2.954E+02   2.967E+02   2.971E+02   2.955E+02   2.950E+02
IY=  6   4.868E+02   4.228E+02   2.950E+02   2.959E+02   2.957E+02   2.979E+02   2.983E+02   2.968E+02   2.950E+02
IY=  5   1.856E+03   1.883E+03   4.460E+02   3.098E+02   2.964E+02   2.994E+02   3.004E+02   2.986E+02   2.950E+02
IY=  4   1.828E+03   1.858E+03   5.437E+02   3.354E+02   3.030E+02   3.013E+02   3.037E+02   3.009E+02   2.950E+02
IY=  3   1.875E+03   1.901E+03   4.602E+02   3.128E+02   2.993E+02   3.007E+02   3.025E+02   3.034E+02   2.950E+02
IY=  2   4.831E+02   4.092E+02   3.027E+02   2.980E+02   2.991E+02   3.007E+02   3.016E+02   3.041E+02   2.950E+02
IY=  1   3.360E+02   3.179E+02   3.049E+02   3.036E+02   3.049E+02   3.063E+02   3.073E+02   3.085E+02   2.952E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.150E+00   1.152E+00   1.155E+00   1.160E+00   1.166E+00   1.173E+00   1.180E+00   1.186E+00   1.188E+00
IY= 22   1.169E+00   1.169E+00   1.170E+00   1.171E+00   1.173E+00   1.178E+00   1.182E+00   1.187E+00   1.189E+00
IY= 21   1.178E+00   1.178E+00   1.178E+00   1.180E+00   1.182E+00   1.186E+00   1.191E+00   1.194E+00   1.195E+00
IY= 20   1.189E+00   1.189E+00   1.190E+00   1.191E+00   1.193E+00   1.195E+00   1.197E+00   1.198E+00   1.198E+00
IY= 19   1.197E+00   1.197E+00   1.197E+00   1.198E+00   1.198E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
IY= 18   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.200E+00
IY= 17   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 16   1.201E+00   1.201E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.200E+00   1.201E+00   1.201E+00
IY= 14   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 12   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 11   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 10   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.198E+00   1.197E+00   1.197E+00   1.201E+00
IY=  9   1.200E+00   1.199E+00   1.199E+00   1.199E+00   1.199E+00   1.196E+00   1.193E+00   1.196E+00   1.201E+00
IY=  8   1.190E+00   1.199E+00   1.199E+00   1.199E+00   1.198E+00   1.194E+00   1.192E+00   1.197E+00   1.201E+00
IY=  7   1.107E+00   1.161E+00   1.196E+00   1.198E+00   1.197E+00   1.192E+00   1.191E+00   1.198E+00   1.201E+00
IY=  6   7.397E-01   8.398E-01   1.193E+00   1.194E+00   1.196E+00   1.187E+00   1.186E+00   1.193E+00   1.201E+00
IY=  5   1.811E-01   1.820E-01   7.900E-01   1.143E+00   1.192E+00   1.181E+00   1.178E+00   1.186E+00   1.201E+00
IY=  4   1.788E-01   1.801E-01   6.465E-01   1.059E+00   1.167E+00   1.173E+00   1.165E+00   1.177E+00   1.201E+00
IY=  3   1.842E-01   1.845E-01   7.662E-01   1.132E+00   1.181E+00   1.176E+00   1.169E+00   1.168E+00   1.201E+00
IY=  2   7.446E-01   8.692E-01   1.165E+00   1.185E+00   1.182E+00   1.176E+00   1.173E+00   1.165E+00   1.201E+00
IY=  1   1.063E+00   1.119E+00   1.162E+00   1.166E+00   1.160E+00   1.155E+00   1.152E+00   1.151E+00   1.200E+00
 IX=       1           2           3           4           5           6           7           8           9

*****************************************************************
TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    25 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 25, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -8.174E-01  -8.377E-01  -8.514E-01  -8.735E-01  -8.926E-01  -9.058E-01  -9.103E-01  -8.774E-01  -9.046E-01
IY= 22  -8.495E-01  -8.458E-01  -8.516E-01  -8.611E-01  -8.719E-01  -8.814E-01  -8.864E-01  -8.626E-01  -8.804E-01
IY= 21  -9.002E-01  -8.978E-01  -8.983E-01  -8.991E-01  -8.999E-01  -8.997E-01  -8.986E-01  -8.751E-01  -8.898E-01
IY= 20  -9.157E-01  -9.156E-01  -9.156E-01  -9.154E-01  -9.152E-01  -9.145E-01  -9.135E-01  -8.929E-01  -9.061E-01
IY= 19  -9.217E-01  -9.211E-01  -9.215E-01  -9.224E-01  -9.241E-01  -9.278E-01  -9.336E-01  -9.254E-01  -9.405E-01
IY= 18  -9.178E-01  -9.158E-01  -9.164E-01  -9.179E-01  -9.219E-01  -9.333E-01  -9.594E-01  -9.998E-01  -1.081E+00
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IY= 17  -9.152E-01  -9.131E-01  -9.140E-01  -9.157E-01  -9.205E-01  -9.361E-01  -9.792E-01  -1.098E+00  -1.344E+00
IY= 16  -9.095E-01  -9.094E-01  -9.094E-01  -9.101E-01  -9.131E-01  -9.287E-01  -9.872E-01  -1.245E+00  -2.603E+00
IY= 15  -2.626E+01  -2.916E+01  -3.278E+01  -3.538E+01  -3.793E+01  -3.999E+01  -4.287E+01  -2.787E+01  -5.570E+00
IY= 14  -3.282E+01  -3.435E+01  -3.640E+01  -3.818E+01  -3.985E+01  -4.105E+01  -4.191E+01  -3.248E+01  -1.909E+00
IY= 13  -5.262E+01  -5.276E+01  -5.257E+01  -5.165E+01  -5.035E+01  -4.844E+01  -4.693E+01  -3.520E+01  -1.620E+00
IY= 12  -9.243E+01  -9.232E+01  -9.036E+01  -8.459E+01  -7.629E+01  -6.619E+01  -5.847E+01  -4.012E+01  -1.396E+00
IY= 11   7.078E+01   1.728E+02   1.881E+02   1.466E+02   1.004E+02   7.027E+01   9.306E+01   1.716E+02  -1.268E+00
IY= 10  -5.122E+01   1.579E+01  -5.897E+01  -1.074E+02  -1.097E+02  -8.616E+01  -2.649E+01   7.419E+01  -1.200E+00
IY=  9   1.142E+02   1.346E+02  -5.626E+01  -1.409E+02  -1.548E+02  -1.385E+02  -8.498E+01   1.137E+01  -1.156E+00
IY=  8   7.248E+02   4.793E+02  -1.868E+00  -1.404E+02  -1.656E+02  -1.520E+02  -1.016E+02  -2.769E+01  -1.123E+00
IY=  7   3.014E+03   1.510E+03   1.611E+00  -1.632E+02  -1.825E+02  -1.587E+02  -9.777E+01  -4.553E+01  -1.097E+00
IY=  6   4.262E+03   1.602E+03  -4.231E+02  -1.093E+02  -1.878E+02  -1.596E+02  -9.219E+01  -4.807E+01  -1.077E+00
IY=  5  -9.220E+03  -1.014E+04  -4.385E+03  -8.295E+01  -1.698E+02  -1.791E+02  -1.006E+02  -4.804E+01  -1.059E+00
IY=  4  -5.909E+03  -4.917E+03  -3.427E+03   3.981E+02  -1.452E+01  -1.936E+02  -1.398E+02  -4.306E+01  -1.043E+00
IY=  3  -1.040E+04  -1.022E+04  -3.140E+03   2.804E+02  -5.034E+01  -1.767E+02  -1.234E+02  -1.029E+01  -1.035E+00
IY=  2   2.862E+03   1.392E+03  -1.170E+02  -1.635E+02  -1.830E+02  -1.727E+02  -8.974E+01   2.644E+01  -1.025E+00
IY=  1   1.917E+03   1.499E+03   3.812E+02  -3.511E+01  -1.422E+02  -1.535E+02  -5.968E+01   2.417E+02  -1.020E+00
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -1.565E-02  -3.023E-02  -4.898E-02  -6.376E-02  -7.529E-02  -7.954E-02  -7.868E-02  -1.348E-03
IY= 22   7.652E-03   1.424E-02   2.098E-02   2.261E-02   1.642E-02   1.069E-03  -2.045E-02   2.747E-02
IY= 21   4.249E-03   7.610E-03   9.606E-03   6.630E-03  -5.067E-03  -2.217E-02  -4.020E-02   1.719E-02
IY= 20   1.232E-04  -3.435E-04  -3.256E-03  -9.569E-03  -2.243E-02  -3.700E-02  -5.054E-02   1.276E-02
IY= 19   2.545E-03   4.887E-03   7.646E-03   9.268E-03   9.541E-03   5.713E-03  -6.921E-03   4.283E-02
IY= 18   8.523E-03   1.696E-02   3.070E-02   4.757E-02   7.591E-02   1.075E-01   1.255E-01   1.657E-01
IY= 17   1.209E-02   2.327E-02   4.273E-02   6.899E-02   1.200E-01   1.920E-01   2.753E-01   4.095E-01
IY= 16   7.129E-03   1.755E-02   4.005E-02   7.500E-02   1.522E-01   2.876E-01   5.346E-01   1.135E+00
IY= 15  -1.748E+00  -2.797E+00  -3.731E+00  -4.329E+00  -4.883E+00  -5.331E+00  -5.856E+00  -4.870E+00
IY= 14  -6.494E-01  -1.161E+00  -1.760E+00  -2.200E+00  -2.644E+00  -2.953E+00  -3.110E+00  -5.167E-08
IY= 13  -3.732E-01  -8.013E-01  -1.418E+00  -1.989E+00  -2.532E+00  -2.828E+00  -2.987E+00  -8.210E-17
IY= 12   1.104E-01  -2.492E-01  -1.121E+00  -1.933E+00  -2.797E+00  -3.300E+00  -3.452E+00   6.106E-15
IY= 11   1.155E+01   1.939E+01   2.567E+01   2.866E+01   2.899E+01   2.691E+01   2.245E+01   1.802E-07
IY= 10   1.722E+01   2.647E+01   3.092E+01   3.097E+01   2.830E+01   2.422E+01   1.765E+01   8.436E-08
IY=  9   2.265E+01   3.195E+01   3.360E+01   3.104E+01   2.625E+01   2.152E+01   1.368E+01   5.155E-08
IY=  8   2.910E+01   3.858E+01   3.583E+01   3.024E+01   2.418E+01   1.813E+01   8.669E+00   2.478E-08
IY=  7   3.599E+01   4.560E+01   3.393E+01   2.553E+01   1.924E+01   1.182E+01   9.852E-01   7.365E-09
IY=  6   2.989E+01   3.416E+01  -2.468E+00   7.907E+00   9.509E+00   4.349E+00  -5.509E+00   3.057E-09
IY=  5   1.717E+01  -1.239E+01  -3.006E+01   8.080E+00   1.223E+01   7.499E+00  -3.191E+00   2.332E-09
IY=  4   8.867E+00   1.507E+01  -1.665E+01   2.084E+01   1.795E+01   1.105E+01  -8.260E-01   4.544E-10
IY=  3   1.382E+01  -4.322E-01  -1.401E+01   2.182E+01   2.323E+01   1.793E+01   1.033E+01   1.829E-08
IY=  2   3.376E+01   4.061E+01   2.141E+01   1.923E+01   1.937E+01   1.570E+01   6.876E+00   5.181E-08
IY=  1   3.957E+01   5.602E+01   5.736E+01   5.453E+01   5.052E+01   4.507E+01   3.760E+01   4.528E-07
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -4.724E-01  -4.561E-01  -4.213E-01  -3.622E-01  -2.861E-01  -2.037E-01  -1.366E-01  -8.669E-02  -7.149E-02
IY= 21  -3.413E-01  -3.330E-01  -3.134E-01  -2.802E-01  -2.394E-01  -2.009E-01  -1.727E-01  -1.481E-01  -1.576E-01
IY= 20  -2.331E-01  -2.304E-01  -2.238E-01  -2.139E-01  -2.045E-01  -1.994E-01  -1.938E-01  -1.779E-01  -2.012E-01
IY= 19  -1.576E-01  -1.590E-01  -1.627E-01  -1.715E-01  -1.860E-01  -2.049E-01  -2.163E-01  -2.083E-01  -2.453E-01
IY= 18  -7.603E-02  -7.962E-02  -8.981E-02  -1.113E-01  -1.464E-01  -1.995E-01  -2.610E-01  -3.136E-01  -4.191E-01
IY= 17  -4.667E-02  -5.069E-02  -6.054E-02  -8.043E-02  -1.142E-01  -1.720E-01  -2.577E-01  -3.808E-01  -6.273E-01
IY= 16  -1.573E-02  -2.188E-02  -2.924E-02  -4.251E-02  -6.524E-02  -1.112E-01  -1.998E-01  -3.876E-01  -1.130E+00
IY= 15  -3.974E-12  -4.258E-12  -7.524E-12  -9.687E-12  -2.015E-11  -4.127E-11  -1.065E-10  -5.904E-07  -2.483E+00
IY= 14  -2.432E+00  -1.647E+00  -1.140E+00  -8.476E-01  -6.624E-01  -5.424E-01  -5.130E-01  -8.622E-01   2.820E-01
IY= 13  -4.554E+00  -3.451E+00  -2.653E+00  -2.076E+00  -1.695E+00  -1.398E+00  -1.122E+00  -6.571E-01   4.583E-01
IY= 12  -5.498E+00  -4.416E+00  -3.610E+00  -3.013E+00  -2.440E+00  -1.967E+00  -1.584E+00  -8.156E-01   4.006E-01
IY= 11   1.356E-07   2.000E-07   3.750E-07   3.785E-07   4.181E-07   3.119E-07   2.047E-07   6.047E-08   3.164E-01
IY= 10   2.752E+01   3.049E+01   2.863E+01   2.471E+01   1.935E+01   1.480E+01   1.068E+01   5.617E+00   2.545E-01
IY=  9   3.756E+01   3.843E+01   3.389E+01   2.830E+01   2.168E+01   1.642E+01   1.191E+01   5.729E+00   2.158E-01
IY=  8   4.882E+01   4.297E+01   3.207E+01   2.427E+01   1.729E+01   1.313E+01   1.019E+01   3.928E+00   1.844E-01
IY=  7   5.834E+01   4.355E+01   2.494E+01   1.647E+01   1.131E+01   9.181E+00   7.618E+00   1.338E+00   1.567E-01
IY=  6   5.141E+01   2.946E+01   2.983E+00   4.181E+00   5.850E+00   6.152E+00   4.700E+00  -1.833E-02   1.322E-01
IY=  5  -6.619E+01  -6.821E+01  -4.302E+01   8.006E+00   9.459E+00   6.706E+00   3.189E+00   2.042E+00   1.121E-01
IY=  4   1.620E+01   1.830E+01  -6.775E+00   9.797E+00   1.016E+01   6.303E+00   1.895E+00   3.759E+00   8.993E-02
IY=  3  -1.820E+01  -1.002E+01   2.186E+01  -6.886E+00  -6.608E+00  -4.458E+00  -2.482E+00   5.144E+00   6.648E-02
IY=  2   7.699E+01   8.141E+01   5.209E+01   3.382E+00  -4.981E+00  -4.674E+00  -2.282E+00   3.218E+00   5.556E-02
IY=  1  -4.356E+01  -2.962E+01  -1.392E+01  -9.256E+00  -7.403E+00  -6.635E+00  -5.435E+00   2.827E+00   2.716E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
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IY= 23  -1.959E+00  -1.878E+00  -1.702E+00  -1.410E+00  -1.049E+00  -6.622E-01  -3.468E-01  -1.148E-01  -8.584E-09
IY= 22  -9.079E-01  -8.751E-01  -7.991E-01  -6.631E-01  -4.777E-01  -2.667E-01  -8.814E-02   3.860E-02   1.041E-01
IY= 21  -4.809E-01  -4.633E-01  -4.212E-01  -3.437E-01  -2.364E-01  -1.138E-01  -1.173E-02   5.729E-02   9.705E-02
IY= 20  -2.635E-01  -2.538E-01  -2.303E-01  -1.867E-01  -1.267E-01  -5.769E-02  -3.903E-04   3.791E-02   6.129E-02
IY= 19  -1.561E-01  -1.522E-01  -1.433E-01  -1.267E-01  -1.030E-01  -7.333E-02  -4.589E-02  -2.224E-02  -1.552E-02
IY= 18  -8.670E-02  -8.612E-02  -8.581E-02  -8.522E-02  -8.379E-02  -8.168E-02  -7.998E-02  -7.449E-02  -8.480E-02
IY= 17  -4.207E-02  -4.305E-02  -4.651E-02  -5.307E-02  -6.303E-02  -7.783E-02  -9.747E-02  -1.149E-01  -1.679E-01
IY= 16   4.598E-02   4.252E-02   3.541E-02   2.326E-02   1.625E-03  -3.148E-02  -8.158E-02  -1.419E-01  -2.580E-01
IY= 15   3.213E+00   2.878E+00   2.654E+00   2.332E+00   1.981E+00   1.434E+00   8.256E-01   1.661E-01  -9.482E-02
IY= 14   4.211E+00   4.588E+00   4.798E+00   4.659E+00   4.231E+00   3.354E+00   2.223E+00   9.485E-01   9.904E-01
IY= 13   6.234E+00   7.001E+00   7.431E+00   7.189E+00   6.448E+00   5.096E+00   3.387E+00   1.434E+00   1.020E+00
IY= 12   1.231E+01   1.296E+01   1.320E+01   1.246E+01   1.100E+01   8.578E+00   5.784E+00   2.515E+00   9.830E-01
IY= 11  -1.540E-07  -4.481E-07  -1.116E-06  -1.285E-06  -1.632E-06  -1.384E-06  -1.087E-06  -4.734E-07   9.495E-01
IY= 10   5.528E-07   2.126E-07  -1.023E-07  -2.687E-07  -3.700E-07  -3.329E-07  -3.196E-07  -2.304E-07   9.228E-01
IY=  9   9.456E-07   4.137E-07   2.314E-07   8.575E-08   5.986E-08  -2.021E-08  -1.646E-07  -1.518E-07   9.026E-01
IY=  8   1.896E-06   7.930E-07   3.659E-07   1.461E-07   1.043E-07  -5.289E-09  -1.288E-07  -7.710E-08   8.859E-01
IY=  7   3.689E-06   1.792E-06   7.949E-07   1.937E-07   5.701E-08  -4.830E-08  -9.734E-08  -2.727E-08   8.719E-01
IY=  6   3.095E-06   2.648E-06   9.751E-07   8.721E-08  -2.477E-08  -6.073E-08  -6.519E-08  -1.716E-08   8.600E-01
IY=  5   6.901E+02   6.578E+02   1.664E+02   6.787E-06   1.096E-07  -4.223E-08  -7.466E-08  -2.477E-08   8.503E-01
IY=  4   8.057E+02   7.903E+02   2.316E+02   1.244E-05   6.285E-07   1.794E-07  -4.847E-08  -4.398E-08   8.414E-01
IY=  3   6.063E+02   5.559E+02   1.538E+02   1.113E-05  -6.574E-08  -8.066E-08  -8.655E-08  -4.079E-08   8.329E-01
IY=  2   4.436E-06   3.893E-06   2.407E-06   4.328E-07   1.229E-07  -7.396E-08  -1.822E-07  -1.070E-07   8.244E-01
IY=  1   2.525E-06   6.850E-07  -1.069E-06  -1.428E-06  -1.688E-06  -1.573E-06  -1.412E-06  -6.668E-07   8.123E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.582E-01   5.754E-01   6.066E-01   6.237E-01   5.944E-01   4.964E-01   3.717E-01   2.563E-01   2.249E-01
IY= 22   3.704E-01   3.717E-01   3.724E-01   3.647E-01   3.391E-01   2.872E-01   2.249E-01   1.650E-01   1.555E-01
IY= 21   2.032E-01   2.025E-01   2.001E-01   1.930E-01   1.786E-01   1.548E-01   1.278E-01   1.012E-01   1.048E-01
IY= 20   1.015E-01   1.013E-01   1.007E-01   9.919E-02   9.606E-02   8.991E-02   8.110E-02   7.065E-02   7.992E-02
IY= 19   4.882E-02   4.935E-02   5.086E-02   5.378E-02   5.761E-02   6.101E-02   6.182E-02   5.951E-02   7.418E-02
IY= 18   3.696E-02   3.688E-02   3.835E-02   4.285E-02   5.107E-02   6.430E-02   8.139E-02   1.038E-01   1.444E-01
IY= 17   3.510E-02   3.194E-02   3.174E-02   3.593E-02   4.582E-02   6.706E-02   1.085E-01   2.098E-01   4.420E-01
IY= 16   3.142E-05   2.883E-05   3.039E-05   5.184E-05   1.496E-04   4.899E-04   1.520E-03   5.380E-03   5.947E-01
IY= 15   8.449E-02   8.486E-02   1.090E-01   1.311E-01   1.500E-01   1.662E-01   1.868E-01   1.697E-01   1.657E+00
IY= 14   3.029E-01   4.576E-01   4.526E-01   3.230E-01   1.956E-01   9.498E-02   4.483E-02   1.026E-02   8.050E-03
IY= 13   4.478E-01   6.716E-01   5.862E-01   4.397E-01   2.810E-01   1.429E-01   6.132E-02   1.711E-02   8.745E-03
IY= 12   6.941E-01   7.632E-01   7.905E-01   7.197E-01   5.874E-01   3.980E-01   2.264E-01   4.651E-02   7.899E-03
IY= 11   1.111E+00   1.668E+00   2.733E+00   3.559E+00   3.808E+00   3.528E+00   2.775E+00   4.528E-01   7.167E-03
IY= 10   5.943E+00   7.186E+00   7.727E+00   7.169E+00   5.716E+00   4.213E+00   2.657E+00   3.805E-01   6.664E-03
IY=  9   9.993E+00   1.008E+01   9.149E+00   7.468E+00   5.314E+00   3.608E+00   2.072E+00   2.588E-01   6.317E-03
IY=  8   1.511E+01   1.245E+01   9.286E+00   6.552E+00   4.262E+00   2.684E+00   1.295E+00   9.926E-02   6.044E-03
IY=  7   1.731E+01   1.238E+01   7.630E+00   4.451E+00   2.695E+00   1.482E+00   4.360E-01   4.646E-03   5.823E-03
IY=  6   4.275E+00   6.128E+00   3.027E+00   2.585E-01   7.099E-01   4.884E-01   1.012E-01   3.268E-02   5.645E-03
IY=  5   2.294E+01   3.257E+01   1.288E+02   1.022E+00   1.018E+00   7.347E-01   7.305E-02   6.099E-02   5.501E-03
IY=  4   2.422E+01   2.660E+01   3.125E+01   4.494E-02   1.839E+00   1.074E+00   1.595E-01   1.166E-01   5.371E-03
IY=  3   2.008E+01   2.255E+01   1.955E+01   1.150E-01   2.549E+00   2.127E+00   1.046E+00   1.768E-01   5.258E-03
IY=  2   6.202E+00   8.723E+00   5.823E+00   2.026E+00   1.979E+00   1.661E+00   7.480E-01   9.189E-02   5.149E-03
IY=  1   1.011E+01   1.082E+01   1.289E+01   1.238E+01   1.098E+01   9.216E+00   7.036E+00   1.113E+00   5.007E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.369E-01   1.422E-01   1.515E-01   1.543E-01   1.385E-01   1.012E-01   6.255E-02   3.384E-02   2.542E-02
IY= 22   6.602E-02   6.631E-02   6.628E-02   6.348E-02   5.549E-02   4.145E-02   2.720E-02   1.592E-02   1.326E-02
IY= 21   2.745E-02   2.726E-02   2.663E-02   2.484E-02   2.142E-02   1.642E-02   1.159E-02   7.700E-03   7.507E-03
IY= 20   1.022E-02   1.013E-02   9.894E-03   9.362E-03   8.471E-03   7.159E-03   5.746E-03   4.500E-03   5.085E-03
IY= 19   3.564E-03   3.573E-03   3.623E-03   3.722E-03   3.837E-03   3.876E-03   3.749E-03   3.522E-03   4.698E-03
IY= 18   2.135E-03   2.098E-03   2.174E-03   2.466E-03   3.011E-03   3.897E-03   5.137E-03   7.214E-03   1.381E-02
IY= 17   2.187E-03   1.802E-03   1.695E-03   1.945E-03   2.658E-03   4.468E-03   9.115E-03   3.175E-02   1.325E-01
IY= 16   2.510E-07   2.207E-07   2.388E-07   5.320E-07   2.609E-06   1.546E-05   8.447E-05   5.624E-04   4.305E-01
IY= 15   6.083E-02   6.123E-02   8.907E-02   1.175E-01   1.439E-01   1.679E-01   1.999E-01   1.732E-01   3.200E+00
IY= 14   2.659E-01   4.063E-01   4.012E-01   2.850E-01   1.690E-01   8.088E-02   3.614E-02   1.427E-03   1.041E-03
IY= 13   4.117E-01   6.352E-01   5.086E-01   3.579E-01   2.120E-01   9.874E-02   3.593E-02   3.075E-03   1.179E-03
IY= 12   7.184E-01   8.284E-01   8.732E-01   7.585E-01   5.594E-01   3.120E-01   1.339E-01   1.312E-02   1.012E-03
IY= 11   2.534E+00   4.665E+00   9.780E+00   1.453E+01   1.609E+01   1.435E+01   1.000E+01   5.792E-01   8.747E-04
IY= 10   4.084E+01   5.430E+01   6.054E+01   5.410E+01   3.852E+01   2.438E+01   1.221E+01   4.919E-01   7.842E-04
IY=  9   8.904E+01   9.024E+01   7.800E+01   5.752E+01   3.453E+01   1.932E+01   8.407E+00   2.759E-01   7.238E-04
IY=  8   1.655E+02   1.238E+02   7.976E+01   4.727E+01   2.480E+01   1.239E+01   4.152E+00   6.555E-02   6.774E-04
IY=  7   2.030E+02   1.227E+02   5.941E+01   2.647E+01   1.247E+01   5.086E+00   8.115E-01   6.638E-04   6.406E-04
IY=  6   2.491E+01   4.276E+01   1.484E+01   3.704E-01   1.686E+00   9.622E-01   9.072E-02   1.238E-02   6.114E-04
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IY=  5   1.330E+04   1.670E+04   3.121E+04   2.911E+00   2.897E+00   1.775E+00   5.565E-02   3.157E-02   5.881E-04
IY=  4   1.434E+04   1.585E+04   8.568E+03   2.686E-02   7.030E+00   3.136E+00   1.795E-01   8.362E-02   5.674E-04
IY=  3   1.069E+04   1.146E+04   4.147E+03   1.099E-01   1.147E+01   8.743E+00   3.017E+00   1.558E-01   5.496E-04
IY=  2   4.353E+01   7.262E+01   3.961E+01   8.127E+00   7.845E+00   6.032E+00   1.824E+00   5.839E-02   5.326E-04
IY=  1   6.694E+01   7.406E+01   9.638E+01   9.072E+01   7.571E+01   5.823E+01   3.884E+01   2.168E+00   5.107E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.100E+05   3.096E+05   3.087E+05   3.072E+05   3.055E+05   3.035E+05   3.017E+05   3.001E+05   2.996E+05
IY= 22   3.049E+05   3.048E+05   3.047E+05   3.043E+05   3.035E+05   3.023E+05   3.010E+05   2.997E+05   2.992E+05
IY= 21   3.022E+05   3.022E+05   3.021E+05   3.018E+05   3.010E+05   2.998E+05   2.987E+05   2.978E+05   2.977E+05
IY= 20   2.992E+05   2.992E+05   2.990E+05   2.987E+05   2.982E+05   2.976E+05   2.971E+05   2.968E+05   2.968E+05
IY= 19   2.972E+05   2.972E+05   2.971E+05   2.969E+05   2.967E+05   2.966E+05   2.964E+05   2.963E+05   2.964E+05
IY= 18   2.966E+05   2.966E+05   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05   2.963E+05
IY= 17   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 16   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.963E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.963E+05   2.964E+05   2.964E+05   2.964E+05   2.964E+05   2.965E+05   2.967E+05   2.969E+05   2.962E+05
IY= 10   2.966E+05   2.965E+05   2.963E+05   2.963E+05   2.964E+05   2.966E+05   2.970E+05   2.972E+05   2.962E+05
IY=  9   2.985E+05   2.976E+05   2.967E+05   2.964E+05   2.965E+05   2.969E+05   2.974E+05   2.975E+05   2.962E+05
IY=  8   3.073E+05   3.020E+05   2.979E+05   2.969E+05   2.968E+05   2.973E+05   2.980E+05   2.975E+05   2.962E+05
IY=  7   3.444E+05   3.222E+05   3.016E+05   2.977E+05   2.972E+05   2.981E+05   2.990E+05   2.968E+05   2.962E+05
IY=  6   4.924E+05   4.338E+05   3.107E+05   2.986E+05   2.981E+05   3.001E+05   3.003E+05   2.978E+05   2.962E+05
IY=  5   1.243E+06   1.056E+06   3.978E+05   3.130E+05   3.016E+05   3.028E+05   3.030E+05   2.996E+05   2.962E+05
IY=  4   1.846E+06   1.869E+06   5.226E+05   3.369E+05   3.118E+05   3.076E+05   3.073E+05   3.021E+05   2.962E+05
IY=  3   8.994E+05   7.780E+05   3.923E+05   3.162E+05   3.060E+05   3.053E+05   3.059E+05   3.053E+05   2.962E+05
IY=  2   4.870E+05   4.277E+05   3.271E+05   3.049E+05   3.020E+05   3.024E+05   3.029E+05   3.055E+05   2.962E+05
IY=  1   3.623E+05   3.458E+05   3.252E+05   3.171E+05   3.139E+05   3.126E+05   3.117E+05   3.120E+05   2.965E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.048E-01   2.096E-01   2.186E-01   2.270E-01   2.297E-01   2.192E-01   1.988E-01   1.747E-01   1.791E-01
IY= 22   1.870E-01   1.875E-01   1.884E-01   1.886E-01   1.865E-01   1.791E-01   1.673E-01   1.538E-01   1.641E-01
IY= 21   1.354E-01   1.354E-01   1.354E-01   1.350E-01   1.341E-01   1.314E-01   1.268E-01   1.197E-01   1.318E-01
IY= 20   9.064E-02   9.109E-02   9.225E-02   9.458E-02   9.804E-02   1.016E-01   1.030E-01   9.982E-02   1.130E-01
IY= 19   6.019E-02   6.136E-02   6.427E-02   6.993E-02   7.784E-02   8.644E-02   9.174E-02   9.050E-02   1.054E-01
IY= 18   5.759E-02   5.836E-02   6.088E-02   6.700E-02   7.796E-02   9.549E-02   1.161E-01   1.344E-01   1.360E-01
IY= 17   5.070E-02   5.094E-02   5.347E-02   5.971E-02   7.109E-02   9.060E-02   1.162E-01   1.248E-01   1.327E-01
IY= 16   3.540E-04   3.391E-04   3.481E-04   4.547E-04   7.725E-04   1.398E-03   2.462E-03   4.632E-03   7.393E-02
IY= 15   1.056E-02   1.059E-02   1.200E-02   1.316E-02   1.407E-02   1.482E-02   1.570E-02   1.497E-02   7.721E-02
IY= 14   3.104E-02   4.638E-02   4.595E-02   3.294E-02   2.038E-02   1.004E-02   5.004E-03   6.637E-03   5.602E-03
IY= 13   4.383E-02   6.390E-02   6.080E-02   4.863E-02   3.351E-02   1.862E-02   9.417E-03   8.573E-03   5.838E-03
IY= 12   6.035E-02   6.329E-02   6.441E-02   6.145E-02   5.552E-02   4.570E-02   3.447E-02   1.484E-02   5.549E-03
IY= 11   4.382E-02   5.370E-02   6.873E-02   7.843E-02   8.113E-02   7.809E-02   6.926E-02   3.186E-02   5.286E-03
IY= 10   7.785E-02   8.560E-02   8.876E-02   8.550E-02   7.634E-02   6.554E-02   5.205E-02   2.649E-02   5.096E-03
IY=  9   1.009E-01   1.014E-01   9.658E-02   8.726E-02   7.361E-02   6.066E-02   4.596E-02   2.184E-02   4.962E-03
IY=  8   1.241E-01   1.127E-01   9.731E-02   8.173E-02   6.592E-02   5.231E-02   3.633E-02   1.353E-02   4.854E-03
IY=  7   1.329E-01   1.123E-01   8.820E-02   6.737E-02   5.242E-02   3.888E-02   2.108E-02   2.927E-03   4.764E-03
IY=  6   6.602E-02   7.905E-02   5.555E-02   1.623E-02   2.690E-02   2.232E-02   1.016E-02   7.762E-03   4.691E-03
IY=  5   3.560E-03   5.718E-03   4.783E-02   3.228E-02   3.222E-02   2.737E-02   8.630E-03   1.060E-02   4.630E-03
IY=  4   3.681E-03   4.017E-03   1.026E-02   6.769E-03   4.330E-02   3.309E-02   1.275E-02   1.467E-02   4.575E-03
IY=  3   3.395E-03   3.995E-03   8.294E-03   1.083E-02   5.098E-02   4.657E-02   3.266E-02   1.805E-02   4.527E-03
IY=  2   7.952E-02   9.431E-02   7.706E-02   4.545E-02   4.492E-02   4.115E-02   2.762E-02   1.302E-02   4.480E-03
IY=  1   1.375E-01   1.422E-01   1.553E-01   1.522E-01   1.433E-01   1.313E-01   1.147E-01   5.146E-02   4.418E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.087E+02   3.083E+02   3.075E+02   3.060E+02   3.042E+02   3.023E+02   3.005E+02   2.989E+02   2.984E+02
IY= 22   3.037E+02   3.036E+02   3.035E+02   3.030E+02   3.023E+02   3.011E+02   2.998E+02   2.985E+02   2.981E+02
IY= 21   3.010E+02   3.010E+02   3.009E+02   3.006E+02   2.998E+02   2.987E+02   2.975E+02   2.966E+02   2.965E+02
IY= 20   2.980E+02   2.980E+02   2.978E+02   2.975E+02   2.970E+02   2.964E+02   2.959E+02   2.956E+02   2.956E+02
IY= 19   2.961E+02   2.960E+02   2.959E+02   2.957E+02   2.956E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02
IY= 18   2.954E+02   2.954E+02   2.953E+02   2.952E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02
IY= 17   2.953E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.951E+02
IY= 16   2.951E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
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1Y= 12   2.952E+02   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
1Y= 11   2.951E+02   2.952E+02   2.952E+02   2.952E+02   2.952E+02   2.953E+02   2.955E+02   2.957E+02   2.950E+02
1Y= 10   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.952E+02   2.954E+02   2.958E+02   2.961E+02   2.950E+02
IY=  9   2.974E+02   2.964E+02   2.955E+02   2.953E+02   2.953E+02   2.957E+02   2.962E+02   2.963E+02   2.950E+02
IY=  8   3.061E+02   3.008E+02   2.967E+02   2.957E+02   2.956E+02   2.961E+02   2.968E+02   2.963E+02   2.950E+02
1Y=  7   3.430E+02   3.209E+02   3.004E+02   2.965E+02   2.960E+02   2.969E+02   2.978E+02   2.956E+02   2.950E+02
IY=  6   4.904E+02   4.320E+02   3.095E+02   2.975E+02   2.969E+02   2.989E+02   2.991E+02   2.966E+02   2.950E+02
1Y=  5   1.238E+03   1.052E+03   3.962E+02   3.118E+02   3.004E+02   3.016E+02   3.017E+02   2.984E+02   2.950E+02
1Y=  4   1.839E+03   1.861E+03   5.205E+02   3.355E+02   3.106E+02   3.064E+02   3.061E+02   3.009E+02   2.950E+02
1Y=  3   8.958E+02   7.749E+02   3.907E+02   3.149E+02   3.048E+02   3.041E+02   3.047E+02   3.041E+02   2.950E+02
1Y=  2   4.850E+02   4.260E+02   3.258E+02   3.037E+02   3.007E+02   3.012E+02   3.017E+02   3.043E+02   2.950E+02
1Y=  1   3.608E+02   3.445E+02   3.239E+02   3.158E+02   3.126E+02   3.114E+02   3.105E+02   3.107E+02   2.953E+02
 1X=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
1Y= 23   1.148E+00   1.149E+00   1.152E+00   1.158E+00   1.164E+00   1.172E+00   1.179E+00   1.185E+00   1.187E+00
1Y= 22   1.167E+00   1.167E+00   1.167E+00   1.169E+00   1.172E+00   1.176E+00   1.182E+00   1.187E+00   1.189E+00
1Y= 21   1.177E+00   1.177E+00   1.177E+00   1.179E+00   1.182E+00   1.186E+00   1.191E+00   1.194E+00   1.195E+00
1Y= 20   1.189E+00   1.189E+00   1.189E+00   1.191E+00   1.193E+00   1.195E+00   1.197E+00   1.199E+00   1.199E+00
1Y= 19   1.197E+00   1.197E+00   1.197E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00
1Y= 18   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.200E+00
1Y= 17   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 16   1.201E+00   1.201E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
1Y= 15   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
1Y= 14   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
1Y= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
1Y= 12   1.199E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
1Y= 11   1.201E+00   1.202E+00   1.202E+00   1.202E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
1Y= 10   1.199E+00   1.200E+00   1.200E+00   1.199E+00   1.199E+00   1.198E+00   1.197E+00   1.198E+00   1.201E+00
1Y=  9   1.193E+00   1.197E+00   1.198E+00   1.198E+00   1.198E+00   1.196E+00   1.195E+00   1.196E+00   1.201E+00
1Y=  8   1.166E+00   1.183E+00   1.194E+00   1.196E+00   1.197E+00   1.195E+00   1.192E+00   1.195E+00   1.201E+00
1Y=  7   1.064E+00   1.121E+00   1.179E+00   1.193E+00   1.195E+00   1.191E+00   1.189E+00   1.198E+00   1.201E+00
1Y=  6   7.528E-01   8.330E-01   1.140E+00   1.190E+00   1.191E+00   1.183E+00   1.183E+00   1.194E+00   1.201E+00
1Y=  5   2.600E-01   3.030E-01   8.554E-01   1.135E+00   1.177E+00   1.173E+00   1.173E+00   1.187E+00   1.201E+00
IY=  4   1.815E-01   1.811E-01   6.576E-01   1.060E+00   1.140E+00   1.154E+00   1.156E+00   1.177E+00   1.201E+00
IY=  3   3.549E-01   4.111E-01   8.787E-01   1.128E+00   1.162E+00   1.163E+00   1.161E+00   1.165E+00   1.201E+00
IY=  2   7.511E-01   8.431E-01   1.086E+00   1.165E+00   1.176E+00   1.174E+00   1.173E+00   1.165E+00   1.201E+00
IY=  1   1.000E+00   1.044E+00   1.098E+00   1.121E+00   1.132E+00   1.136E+00   1.141E+00   1.143E+00   1.200E+00
 1X=       1           2           3           4           5           6           7           8           9


****************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    27 1TERN NO=      1



FLOW FIELD AT 1THYD=  1, 1Z= 27, 1SWEEP=  70, 1STEP=   1
FIELD VALUES OF P1
1Y= 23  -8.593E-01  -8.844E-01  -8.971E-01  -9.139E-01  -9.285E-01  -9.404E-01  -9.451E-01  -9.098E-01  -9.399E-01
1Y= 22  -8.787E-01  -8.768E-01  -8.828E-01  -8.927E-01  -9.037E-01  -9.136E-01  -9.189E-01  -8.948E-01  -9.131E-01
1Y= 21  -9.112E-01  -9.085E-01  -9.094E-01  -9.107E-01  -9.119E-01  -9.122E-01  -9.113E-01  -8.892E-01  -9.032E-01
1Y= 20  -9.180E-01  -9.175E-01  -9.175E-01  -9.176E-01  -9.176E-01  -9.171E-01  -9.163E-01  -8.973E-01  -9.092E-01
1Y= 19  -9.211E-01  -9.207E-01  -9.210E-01  -9.217E-01  -9.229E-01  -9.254E-01  -9.293E-01  -9.202E-01  -9.329E-01
1Y= 18  -9.190E-01  -9.178E-01  -9.182E-01  -9.193E-01  -9.221E-01  -9.299E-01  -9.476E-01  -9.732E-01  -1.031E+00
1Y= 17  -9.174E-01  -9.161E-01  -9.168E-01  -9.180E-01  -9.217E-01  -9.330E-01  -9.636E-01  -1.049E+00  -1.241E+00
1Y= 16  -9.145E-01  -9.145E-01  -9.145E-01  -9.153E-01  -9.181E-01  -9.303E-01  -9.744E-01  -1.172E+00  -2.283E+00
1Y= 15  -2.414E+01  -2.717E+01  -3.159E+01  -3.534E+01  -3.945E+01  -4.315E+01  -4.758E+01  -2.956E+01  -5.080E+00
1Y= 14  -3.049E+01  -3.232E+01  -3.518E+01  -3.818E+01  -4.138E+01  -4.436E+01  -4.674E+01  -3.615E+01  -2.114E+00
1Y= 13  -5.399E+01  -5.426E+01  -5.459E+01  -5.442E+01  -5.426E+01  -5.390E+01  -5.386E+01  -4.000E+01  -1.519E+00
1Y= 12  -1.194E+02  -1.195E+02  -1.165E+02  -1.081E+02  -9.691E+01  -8.386E+01  -7.472E+01  -4.913E+01  -1.278E+00
1Y= 11  -2.945E+02  -2.985E+02  -2.798E+02  -2.483E+02  -2.041E+02  -1.554E+02  -1.218E+02  -6.690E+01  -1.174E+00
1Y= 10  -4.166E+02  -4.635E+02  -4.133E+02  -3.426E+02  -2.550E+02  -1.848E+02  -1.450E+02  -7.739E+01  -1.124E+00
1Y=  9  -5.906E+02  -7.318E+02  -6.143E+02  -4.594E+02  -3.167E+02  -2.127E+02  -1.645E+02  -8.555E+01  -1.093E+00
1Y=  8  -7.533E+02  -1.073E+03  -8.872E+02  -6.365E+02  -4.032E+02  -2.509E+02  -1.858E+02  -9.327E+01  -1.069E+00
1Y=  7  -2.911E+02  -9.880E+02  -9.960E+02  -7.740E+02  -5.061E+02  -3.034E+02  -2.118E+02  -1.007E+02  -1.049E+00
1Y=  6  -4.066E+03  -3.789E+03  -2.216E+03  -6.645E+02  -5.805E+02  -3.458E+02  -2.347E+02  -1.068E+02  -1.034E+00
1Y=  5  -3.251E+03  -1.720E+03   7.222E+03  -1.728E+03  -6.155E+02  -3.834E+02  -2.549E+02  -1.123E+02  -1.020E+00
1Y=  4  -1.439E+04  -1.284E+04   1.831E+03  -1.904E+03  -6.778E+02  -4.114E+02  -2.703E+02  -1.169E+02  -1.008E+00
1Y=  3   4.768E+03   3.547E+03   5.999E+03  -1.674E+03  -7.094E+02  -4.082E+02  -2.717E+02  -1.184E+02  -1.001E+00
1Y=  2  -2.026E+03  -2.509E+03  -1.942E+03  -1.092E+03  -7.076E+02  -3.894E+02  -2.689E+02  -1.196E+02  -9.934E-01
1Y=  1  -1.441E+03  -1.517E+03  -1.320E+03  -9.598E+02  -5.697E+02  -3.447E+02  -2.594E+02  -1.187E+02  -9.892E-01
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 IX=       1          2          3          4          5          6          7          8          9
FIELD VALUES OF U1
IY= 23  -2.213E-02 -4.291E-02 -6.959E-02 -8.716E-02 -9.521E-02 -9.346E-02 -8.743E-02 -3.812E-03
IY= 22   5.712E-03  1.053E-02  1.532E-02  1.619E-02  1.059E-02 -3.832E-03 -2.456E-02  2.707E-02
IY= 21   5.372E-03  9.600E-03  1.221E-02  8.973E-03 -4.091E-03 -2.268E-02 -4.149E-02  1.717E-02
IY= 20   1.550E-03  2.156E-03 -1.847E-04 -7.096E-03 -2.175E-02 -3.779E-02 -5.182E-02  1.224E-02
IY= 19   2.156E-03  3.937E-03  5.288E-03  4.921E-03  2.145E-03 -3.980E-03 -1.687E-02  3.575E-02
IY= 18   7.133E-03  1.413E-02  2.515E-02  3.822E-02  5.968E-02  8.269E-02  9.382E-02  1.354E-01
IY= 17   1.026E-02  1.973E-02  3.589E-02  5.704E-02  9.673E-02  1.516E-01  2.149E-01  3.311E-01
IY= 16   6.896E-03  1.662E-02  3.651E-02  6.625E-02  1.255E-01  2.276E-01  4.186E-01  9.245E-01
IY= 15  -1.650E+00 -2.759E+00 -3.864E+00 -4.641E+00 -5.400E+00 -6.042E+00 -6.704E+00 -5.656E+00
IY= 14  -7.020E-01 -1.283E+00 -1.966E+00 -2.447E+00 -2.906E+00 -3.215E+00 -3.383E+00 -1.286E-07
IY= 13  -6.470E-01 -1.238E+00 -1.961E+00 -2.509E+00 -2.981E+00 -3.220E+00 -3.360E+00 -2.138E-15
IY= 12  -4.812E-01 -1.387E+00 -2.675E+00 -3.621E+00 -4.352E+00 -4.521E+00 -4.361E+00  1.474E-23
IY= 11  -1.441E+00 -3.042E+00 -5.555E+00 -7.058E+00 -7.584E+00 -7.060E+00 -6.191E+00  1.314E-22
IY= 10  -3.217E+00 -5.741E+00 -8.598E+00 -9.915E+00 -9.856E+00 -8.571E+00 -7.179E+00  2.675E-23
IY=  9  -5.022E+00 -8.538E+00 -1.209E+01 -1.341E+01 -1.224E+01 -9.853E+00 -7.907E+00  1.152E-23
IY=  8  -6.523E+00 -1.069E+01 -1.466E+01 -1.611E+01 -1.483E+01 -1.146E+01 -8.665E+00  3.551E-24
IY=  7  -7.422E+00 -1.155E+01 -1.518E+01 -1.727E+01 -1.668E+01 -1.289E+01 -9.516E+00  1.292E-26
IY=  6  -7.995E+00 -1.103E+01 -1.133E+01 -1.632E+01 -1.775E+01 -1.394E+01 -1.018E+01  9.694E-27
IY=  5  -7.874E-01  5.932E-01  1.245E+01 -1.490E+01 -1.854E+01 -1.491E+01 -1.074E+01  1.292E-26
IY=  4  -6.650E-01 -6.896E+00  6.993E+00 -1.755E+01 -2.008E+01 -1.567E+01 -1.116E+01  1.616E-26
IY=  3   3.889E+00  5.682E+00  8.175E+00 -1.908E+01 -2.113E+01 -1.575E+01 -1.121E+01  6.462E-27
IY=  2  -9.799E+00 -1.493E+01 -2.133E+01 -2.498E+01 -2.233E+01 -1.557E+01 -1.119E+01  3.904E-23
IY=  1  -1.449E+01 -2.296E+01 -2.748E+01 -2.562E+01 -1.940E+01 -1.404E+01 -1.080E+01  3.357E-22
 IX=       1          2          3          4          5          6          7          8
FIELD VALUES OF V1
IY= 22  -5.022E-01 -4.848E-01 -4.477E-01 -3.841E-01 -3.013E-01 -2.103E-01 -1.364E-01 -8.290E-02 -6.600E-02
IY= 21  -3.302E-01 -3.195E-01 -2.948E-01 -2.538E-01 -2.043E-01 -1.592E-01 -1.286E-01 -1.061E-01 -1.125E-01
IY= 20  -2.001E-01 -1.955E-01 -1.848E-01 -1.689E-01 -1.537E-01 -1.457E-01 -1.407E-01 -1.292E-01 -1.487E-01
IY= 19  -1.143E-01 -1.147E-01 -1.163E-01 -1.218E-01 -1.331E-01 -1.496E-01 -1.605E-01 -1.554E-01 -1.871E-01
IY= 18  -4.011E-02 -4.319E-02 -5.192E-02 -7.058E-02 -1.009E-01 -1.465E-01 -1.978E-01 -2.400E-01 -3.276E-01
IY= 17  -1.722E-02 -2.070E-02 -2.920E-02 -4.640E-02 -7.557E-02 -1.248E-01 -1.963E-01 -2.973E-01 -5.005E-01
IY= 16   3.759E-03 -1.404E-03 -7.534E-03 -1.876E-02 -3.865E-02 -7.818E-02 -1.527E-01 -3.105E-01 -9.286E-01
IY= 15  -4.899E-12 -5.206E-12 -9.116E-12 -1.160E-11 -2.360E-11 -4.817E-11 -1.280E-10 -9.650E-07 -2.169E+00
IY= 14  -2.732E+00 -2.074E+00 -1.595E+00 -1.259E+00 -9.943E-01 -7.713E-01 -6.258E-01 -8.619E-01  1.123E+00
IY= 13  -6.031E+00 -5.117E+00 -4.363E+00 -3.678E+00 -3.114E+00 -2.498E+00 -1.797E+00 -8.797E-01  8.202E-01
IY= 12  -1.042E+01 -9.343E+00 -8.365E+00 -7.308E+00 -6.236E+00 -4.987E+00 -3.572E+00 -1.549E+00  5.734E-01
IY= 11  -1.847E+01 -1.787E+01 -1.655E+01 -1.458E+01 -1.236E+01 -9.603E+00 -6.583E+00 -2.620E+00  4.110E-01
IY= 10  -2.159E+01 -2.154E+01 -2.012E+01 -1.698E+01 -1.343E+01 -9.689E+00 -6.101E+00 -2.112E+00  3.181E-01
IY=  9  -2.401E+01 -2.404E+01 -2.221E+01 -1.847E+01 -1.400E+01 -9.362E+00 -5.484E+00 -1.734E+00  2.661E-01
IY=  8  -2.485E+01 -2.455E+01 -2.221E+01 -1.828E+01 -1.384E+01 -8.913E+00 -4.946E+00 -1.490E+00  2.262E-01
IY=  7  -2.391E+01 -2.281E+01 -1.948E+01 -1.582E+01 -1.260E+01 -8.198E+00 -4.348E+00 -1.291E+00  1.919E-01
IY=  6  -2.466E+01 -2.119E+01 -1.395E+01 -1.127E+01 -1.029E+01 -7.191E+00 -3.658E+00 -1.059E+00  1.619E-01
IY=  5  -1.037E+01 -5.599E+00  8.522E+00 -7.136E+00 -8.099E+00 -6.098E+00 -3.002E+00 -8.398E-01  1.375E-01
IY=  4  -1.455E+01 -1.294E+01 -4.947E+00 -5.736E+00 -6.439E+00 -4.665E+00 -2.132E+00 -5.657E-01  1.105E-01
IY=  3   2.761E+01  2.239E+01  4.336E+00 -7.522E-01 -3.956E+00 -2.689E+00 -1.051E+00 -2.570E-01  8.171E-02
IY=  2   6.968E+00  3.114E+00 -1.056E+01 -1.888E+00 -3.141E+00 -1.749E+00 -5.723E-01 -1.405E-01  6.844E-02
IY=  1   2.180E+01  1.832E+01  1.012E+01  2.279E+00  4.182E-01  7.337E-01  3.768E-01  6.878E-02  3.341E-02
 IX=       1          2          3          4          5          6          7          8          9
FIELD VALUES OF W1
IY= 23  -2.082E+00 -1.996E+00 -1.812E+00 -1.506E+00 -1.129E+00 -7.172E-01 -3.776E-01 -1.266E-01 -1.467E-08
IY= 22  -8.986E-01 -8.642E-01 -7.851E-01 -6.444E-01 -4.542E-01 -2.385E-01 -5.875E-02  6.477E-02  1.315E-01
IY= 21  -4.538E-01 -4.351E-01 -3.906E-01 -3.105E-01 -2.024E-01 -8.420E-02  9.957E-03  7.010E-02  1.082E-01
IY= 20  -2.331E-01 -2.229E-01 -1.985E-01 -1.552E-01 -9.839E-02 -3.717E-02  1.100E-02  4.129E-02  6.234E-02
IY= 19  -1.287E-01 -1.251E-01 -1.171E-01 -1.034E-01 -8.527E-02 -6.417E-02 -4.559E-02 -2.914E-02 -2.905E-02
IY= 18  -7.359E-02 -7.331E-02 -7.399E-02 -7.592E-02 -7.931E-02 -8.614E-02 -9.738E-02 -1.070E-01 -1.421E-01
IY= 17  -3.972E-02 -4.095E-02 -4.522E-02 -5.380E-02 -6.806E-02 -9.278E-02 -1.308E-01 -1.803E-01 -3.062E-01
IY= 16   2.770E-02  2.331E-02  1.406E-02 -2.051E-03 -2.846E-02 -7.155E-02 -1.496E-01 -2.748E-01 -6.701E-01
IY= 15   1.444E+00  1.095E+00  9.480E-01  7.900E-01  6.544E-01  4.437E-01  1.944E-01 -8.785E-02 -1.480E-01
IY= 14   2.405E+00  2.755E+00  2.966E+00  2.882E+00  2.548E+00  1.881E+00  1.136E+00  4.477E-01  8.565E-01
IY= 13   3.117E+00  4.005E+00  4.442E+00  4.321E+00  3.784E+00  2.765E+00  1.614E+00  5.998E-01  7.871E-01
IY= 12   3.937E+00  5.440E+00  6.116E+00  5.860E+00  4.998E+00  3.454E+00  1.847E+00  5.966E-01  8.055E-01
IY= 11  -8.769E-01 -1.499E-01  3.218E-01  3.122E-01  9.449E-02 -3.629E-01 -5.755E-01 -2.647E-01  8.188E-01
IY= 10  -1.007E+00 -1.354E+00 -2.132E+00 -2.992E+00 -3.118E+00 -2.680E+00 -1.905E+00 -6.534E-01  8.186E-01
IY=  9   5.780E+00  4.097E+00  9.008E-01 -2.681E+00 -4.969E+00 -4.571E+00 -2.879E+00 -8.564E-01  8.150E-01
IY=  8   2.438E+01  2.021E+01  1.188E+01  2.474E+00 -4.346E+00 -5.871E+00 -3.784E+00 -9.755E-01  8.105E-01
IY=  7   7.009E+01  6.046E+01  3.892E+01  1.543E+01 -1.050E+00 -6.244E+00 -4.383E+00 -1.093E+00  8.056E-01
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IY=  6   1.708E+02   1.551E+02   1.075E+02   3.949E+01   4.679E+00  -6.019E+00  -4.881E+00  -1.206E+00   8.004E-01
IY=  5   4.623E+02   4.129E+02   2.757E+02   8.468E+01   1.124E+01  -5.613E+00  -5.344E+00  -1.309E+00   7.961E-01
IY=  4   5.109E+02   4.571E+02   3.103E+02   9.464E+01   1.249E+01  -6.053E+00  -5.701E+00  -1.372E+00   7.913E-01
IY=  3   4.447E+02   3.976E+02   2.635E+02   7.429E+01   7.193E+00  -7.323E+00  -5.806E+00  -1.383E+00   7.843E-01
IY=  2   1.341E+02   1.175E+02   7.567E+01   2.276E+01  -2.857E+00  -9.432E+00  -5.897E+00  -1.383E+00   7.789E-01
IY=  1   1.612E+01  -5.027E+00  -1.533E+01  -1.557E+01  -1.572E+01  -1.154E+01  -5.913E+00  -1.351E+00   7.682E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.694E-01   5.914E-01   6.327E-01   6.661E-01   6.504E-01   5.524E-01   4.168E-01   2.880E-01   2.519E-01
IY= 22   3.850E-01   3.869E-01   3.887E-01   3.816E-01   3.547E-01   2.984E-01   2.309E-01   1.673E-01   1.581E-01
IY= 21   2.010E-01   2.001E-01   1.970E-01   1.883E-01   1.716E-01   1.459E-01   1.186E-01   9.303E-02   9.761E-02
IY= 20   9.143E-02   9.097E-02   8.979E-02   8.733E-02   8.350E-02   7.769E-02   7.010E-02   6.124E-02   7.087E-02
IY= 19   3.673E-02   3.722E-02   3.857E-02   4.125E-02   4.494E-02   4.854E-02   4.982E-02   4.813E-02   6.176E-02
IY= 18   2.489E-02   2.493E-02   2.630E-02   3.016E-02   3.703E-02   4.799E-02   6.182E-02   7.900E-02   1.135E-01
IY= 17   2.232E-02   2.024E-02   2.033E-02   2.366E-02   3.122E-02   4.710E-02   7.748E-02   1.491E-01   3.217E-01
IY= 16   1.351E-05   1.159E-05   1.476E-05   3.737E-05   1.196E-04   3.731E-04   1.136E-03   4.073E-03   4.610E-01
IY= 15   3.339E-02   4.117E-02   7.574E-02   1.146E-01   1.527E-01   1.918E-01   2.325E-01   2.197E-01   9.400E-01
IY= 14   4.819E-01   6.350E-01   5.510E-01   3.567E-01   2.127E-01   1.031E-01   4.636E-02   6.941E-03   1.162E-02
IY= 13   1.059E+00   1.363E+00   1.136E+00   7.443E-01   4.195E-01   1.737E-01   5.754E-02   1.248E-02   7.966E-03
IY= 12   2.566E+00   2.920E+00   2.610E+00   1.987E+00   1.362E+00   7.197E-01   2.669E-01   2.933E-02   6.559E-03
IY= 11   6.121E+01   4.993E+01   1.836E+01   2.427E+00   1.323E+00   6.259E-01   2.096E-01   3.477E-02   5.973E-03
IY= 10   1.284E+03   1.058E+03   6.650E+02   2.511E+02   4.942E+00   5.892E-01   1.590E-01   2.604E-02   5.651E-03
IY=  9   4.609E+03   3.984E+03   2.783E+03   1.350E+03   3.049E+02   9.390E+00   1.324E+00   2.145E-02   5.444E-03
IY=  8   1.217E+04   1.063E+04   7.529E+03   3.888E+03   1.135E+03   1.222E+02   1.376E+01   1.882E-02   5.280E-03
IY=  7   2.959E+04   2.584E+04   1.778E+04   8.964E+03   2.727E+03   3.861E+02   3.301E+01   1.695E-02   5.142E-03
IY=  6   6.015E+04   5.373E+04   3.789E+04   1.761E+04   5.105E+03   7.409E+02   4.813E+01   1.563E-02   5.024E-03
IY=  5   7.500E+04   7.244E+04   5.547E+04   3.005E+04   7.866E+03   1.147E+03   5.789E+01   1.478E-02   4.929E-03
IY=  4   6.975E+04   6.840E+04   5.525E+04   3.174E+04   8.311E+03   1.190E+03   5.824E+01   1.386E-02   4.835E-03
IY=  3   6.944E+04   6.577E+04   4.976E+04   2.660E+04   6.743E+03   8.814E+02   4.817E+01   1.321E-02   4.734E-03
IY=  2   5.112E+04   4.586E+04   3.122E+04   1.346E+04   3.517E+03   3.265E+02   2.662E+01   1.297E-02   4.655E-03
IY=  1   1.996E+00   1.624E+00   3.532E+00   3.818E+00   3.090E+00   1.770E+00   8.617E-01   8.792E-02   4.531E-03
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.479E-01   1.545E-01   1.669E-01   1.743E-01   1.624E-01   1.222E-01   7.628E-02   4.127E-02   3.075E-02
IY= 22   7.203E-02   7.254E-02   7.286E-02   7.017E-02   6.147E-02   4.550E-02   2.928E-02   1.678E-02   1.396E-02
IY= 21   2.833E-02   2.808E-02   2.728E-02   2.509E-02   2.109E-02   1.564E-02   1.073E-02   7.013E-03   6.943E-03
IY= 20   9.397E-03   9.257E-03   8.907E-03   8.209E-03   7.202E-03   5.964E-03   4.765E-03   3.761E-03   4.392E-03
IY= 19   2.581E-03   2.581E-03   2.605E-03   2.674E-03   2.778E-03   2.857E-03   2.820E-03   2.690E-03   3.737E-03
IY= 18   1.258E-03   1.239E-03   1.303E-03   1.522E-03   1.941E-03   2.645E-03   3.628E-03   5.199E-03   1.009E-02
IY= 17   1.174E-03   9.567E-04   9.100E-04   1.084E-03   1.559E-03   2.755E-03   5.826E-03   1.945E-02   8.204E-02
IY= 16   7.077E-08   5.622E-08   8.083E-08   3.256E-07   1.864E-06   1.027E-05   5.455E-05   3.704E-04   4.287E-01
IY= 15   1.511E-02   2.069E-02   5.162E-02   9.608E-02   1.477E-01   2.081E-01   2.777E-01   2.551E-01   2.145E+00
IY= 14   6.156E-01   7.844E-01   6.444E-01   3.958E-01   2.272E-01   1.062E-01   4.531E-02   7.942E-04   1.805E-03
IY= 13   1.722E+00   2.115E+00   1.635E+00   9.834E-01   5.028E-01   1.821E-01   4.756E-02   1.916E-03   1.025E-03
IY= 12   7.234E+00   7.792E+00   6.606E+00   4.637E+00   2.861E+00   1.285E+00   3.801E-01   6.899E-03   7.658E-04
IY= 11   1.995E+02   1.410E+02   4.311E+01   5.696E+00   2.899E+00   1.167E+00   3.105E-01   8.906E-03   6.655E-04
IY= 10   2.475E+04   1.846E+04   9.028E+03   1.777E+03   1.851E+01   1.286E+00   2.407E-01   5.772E-03   6.124E-04
IY=  9   1.579E+05   1.297E+05   7.968E+04   2.890E+04   2.820E+03   2.664E+01   1.556E+00   4.314E-03   5.790E-04
IY=  8   5.805E+05   4.914E+05   3.190E+05   1.324E+05   2.251E+04   6.762E+02   1.961E+01   3.545E-03   5.531E-04
IY=  7   1.752E+06   1.511E+06   9.896E+05   4.197E+05   8.329E+04   3.270E+03   5.551E+01   3.032E-03   5.315E-04
IY=  6   2.500E+06   2.500E+06   2.500E+06   1.025E+06   2.056E+05   1.086E+04   9.466E+01   2.685E-03   5.133E-04
IY=  5   2.500E+06   2.500E+06   2.500E+06   2.005E+06   3.767E+05   2.297E+04   1.286E+02   2.468E-03   4.988E-04
IY=  4   2.500E+06   2.500E+06   2.500E+06   2.178E+06   4.073E+05   2.331E+04   1.285E+02   2.241E-03   4.847E-04
IY=  3   2.500E+06   2.500E+06   2.500E+06   1.804E+06   3.135E+05   1.363E+04   1.009E+02   2.086E-03   4.695E-04
IY=  2   2.500E+06   2.500E+06   2.259E+06   7.827E+05   1.222E+05   3.354E+03   5.492E+01   2.029E-03   4.579E-04
IY=  1   3.790E+00   2.782E+00   8.922E+00   1.003E+01   7.300E+00   3.164E+00   1.075E+00   3.542E-02   4.397E-04
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.114E+05   3.110E+05   3.101E+05   3.085E+05   3.066E+05   3.044E+05   3.025E+05   3.007E+05   3.002E+05
IY= 22   3.062E+05   3.062E+05   3.059E+05   3.054E+05   3.044E+05   3.030E+05   3.014E+05   2.999E+05   2.995E+05
IY= 21   3.030E+05   3.029E+05   3.027E+05   3.022E+05   3.012E+05   2.998E+05   2.986E+05   2.977E+05   2.976E+05
IY= 20   2.993E+05   2.992E+05   2.990E+05   2.986E+05   2.980E+05   2.974E+05   2.969E+05   2.966E+05   2.966E+05
IY= 19   2.971E+05   2.970E+05   2.968E+05   2.967E+05   2.966E+05   2.964E+05   2.963E+05   2.963E+05   2.963E+05
IY= 18   2.965E+05   2.964E+05   2.964E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 17   2.964E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 16   2.962E+05   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05
IY= 14   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
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IY= 13   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.963E+05   2.963E+05   2.962E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.962E+05   2.962E+05   2.961E+05   2.960E+05   2.960E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05
IY= 10   2.979E+05   2.977E+05   2.973E+05   2.967E+05   2.960E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05
IY=  9   3.085E+05   3.075E+05   3.056E+05   3.025E+05   2.985E+05   2.962E+05   2.961E+05   2.962E+05   2.962E+05
IY=  8   3.451E+05   3.406E+05   3.316E+05   3.196E+05   3.064E+05   2.979E+05   2.963E+05   2.962E+05   2.962E+05
IY=  7   4.495E+05   4.322E+05   3.952E+05   3.567E+05   3.224E+05   3.016E+05   2.967E+05   2.962E+05   2.962E+05
IY=  6   6.511E+05   6.131E+05   5.200E+05   4.185E+05   3.452E+05   3.067E+05   2.970E+05   2.962E+05   2.962E+05
IY=  5   9.087E+05   8.426E+05   6.657E+05   5.016E+05   3.705E+05   3.123E+05   2.973E+05   2.962E+05   2.962E+05
IY=  4   1.031E+06   9.515E+05   7.291E+05   5.304E+05   3.796E+05   3.140E+05   2.973E+05   2.962E+05   2.962E+05
IY=  3   8.713E+05   8.180E+05   6.627E+05   4.955E+05   3.672E+05   3.103E+05   2.971E+05   2.962E+05   2.962E+05
IY=  2   6.278E+05   5.930E+05   5.090E+05   4.100E+05   3.398E+05   3.031E+05   2.965E+05   2.962E+05   2.962E+05
IY=  1   3.959E+05   3.836E+05   3.542E+05   3.298E+05   3.110E+05   2.982E+05   2.961E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.974E-01   2.037E-01   2.159E-01   2.291E-01   2.344E-01   2.248E-01   2.050E-01   1.809E-01   1.857E-01
IY= 22   1.852E-01   1.857E-01   1.866E-01   1.868E-01   1.842E-01   1.761E-01   1.638E-01   1.502E-01   1.611E-01
IY= 21   1.284E-01   1.283E-01   1.280E-01   1.272E-01   1.256E-01   1.224E-01   1.179E-01   1.111E-01   1.235E-01
IY= 20   8.007E-02   8.045E-02   8.146E-02   8.362E-02   8.714E-02   9.109E-02   9.283E-02   8.975E-02   1.029E-01
IY= 19   4.705E-02   4.831E-02   5.140E-02   5.726E-02   6.545E-02   7.421E-02   7.922E-02   7.750E-02   9.187E-02
IY= 18   4.431E-02   4.514E-02   4.777E-02   5.379E-02   6.358E-02   7.837E-02   9.480E-02   1.080E-01   1.149E-01
IY= 17   3.822E-02   3.853E-02   4.089E-02   4.646E-02   5.627E-02   7.248E-02   9.273E-02   1.029E-01   1.135E-01
IY= 16   2.321E-04   2.150E-04   2.426E-04   3.860E-04   6.906E-04   1.220E-03   2.128E-03   4.030E-03   4.462E-02
IY= 15   6.640E-03   7.373E-03   1.000E-02   1.230E-02   1.420E-02   1.592E-02   1.752E-02   1.703E-02   3.707E-02
IY= 14   3.395E-02   4.626E-02   4.241E-02   2.894E-02   1.792E-02   9.010E-03   4.268E-03   5.459E-03   6.730E-03
IY= 13   5.855E-02   7.903E-02   7.103E-02   5.070E-02   3.149E-02   1.492E-02   6.265E-03   7.322E-03   5.572E-03
IY= 12   8.193E-02   9.851E-02   9.281E-02   7.666E-02   5.835E-02   3.627E-02   1.687E-02   1.122E-02   5.056E-03
IY= 11   1.690E+00   1.591E+00   7.036E-01   9.310E-02   5.433E-02   3.021E-02   1.274E-02   1.222E-02   4.825E-03
IY= 10   5.996E+00   5.462E+00   4.408E+00   3.194E+00   1.187E-01   2.431E-02   9.450E-03   1.057E-02   4.693E-03
IY=  9   1.211E+01   1.101E+01   8.748E+00   5.675E+00   2.966E+00   2.979E-01   1.015E-01   9.597E-03   4.606E-03
IY=  8   2.295E+01   2.070E+01   1.600E+01   1.028E+01   5.152E+00   1.989E+00   8.686E-01   8.989E-03   4.537E-03
IY=  7   4.498E+01   3.977E+01   2.874E+01   1.723E+01   8.038E+00   4.103E+00   1.767E+00   8.533E-03   4.477E-03
IY=  6   1.302E+02   1.039E+02   5.168E+01   2.725E+01   1.141E+01   4.550E+00   2.202E+00   8.193E-03   4.425E-03
IY=  5   2.025E+02   1.889E+02   1.108E+02   4.054E+01   1.478E+01   5.153E+00   2.345E+00   7.967E-03   4.383E-03
IY=  4   1.751E+02   1.685E+02   1.099E+02   4.164E+01   1.526E+01   5.469E+00   2.375E+00   7.715E-03   4.341E-03
IY=  3   1.736E+02   1.557E+02   8.915E+01   3.530E+01   1.305E+01   5.131E+00   2.069E+00   7.532E-03   4.296E-03
IY=  2   9.409E+01   7.573E+01   3.883E+01   2.084E+01   9.108E+00   2.860E+00   1.161E+00   7.464E-03   4.260E-03
IY=  1   9.460E-02   8.533E-02   1.258E-01   1.308E-01   1.177E-01   8.908E-02   6.216E-02   1.964E-02   4.203E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.102E+02   3.098E+02   3.089E+02   3.073E+02   3.054E+02   3.032E+02   3.013E+02   2.995E+02   2.990E+02
IY= 22   3.050E+02   3.049E+02   3.047E+02   3.041E+02   3.032E+02   3.018E+02   3.002E+02   2.987E+02   2.983E+02
IY= 21   3.018E+02   3.017E+02   3.015E+02   3.010E+02   3.000E+02   2.986E+02   2.974E+02   2.965E+02   2.964E+02
IY= 20   2.981E+02   2.980E+02   2.978E+02   2.974E+02   2.968E+02   2.962E+02   2.957E+02   2.954E+02   2.955E+02
IY= 19   2.959E+02   2.958E+02   2.957E+02   2.955E+02   2.954E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02
IY= 18   2.953E+02   2.952E+02   2.952E+02   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.951E+02
IY= 17   2.953E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 16   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 10   2.967E+02   2.965E+02   2.962E+02   2.955E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  9   3.073E+02   3.062E+02   3.044E+02   3.013E+02   2.973E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY=  8   3.437E+02   3.392E+02   3.302E+02   3.183E+02   3.052E+02   2.967E+02   2.951E+02   2.950E+02   2.950E+02
IY=  7   4.477E+02   4.305E+02   3.937E+02   3.553E+02   3.211E+02   3.004E+02   2.955E+02   2.950E+02   2.950E+02
IY=  6   6.485E+02   6.107E+02   5.179E+02   4.168E+02   3.439E+02   3.054E+02   2.958E+02   2.950E+02   2.950E+02
IY=  5   9.051E+02   8.392E+02   6.631E+02   4.996E+02   3.690E+02   3.111E+02   2.961E+02   2.950E+02   2.950E+02
IY=  4   1.027E+03   9.477E+02   7.262E+02   5.282E+02   3.781E+02   3.127E+02   2.961E+02   2.950E+02   2.950E+02
IY=  3   8.679E+02   8.147E+02   6.600E+02   4.935E+02   3.658E+02   3.091E+02   2.959E+02   2.950E+02   2.950E+02
IY=  2   6.253E+02   5.906E+02   5.070E+02   4.084E+02   3.385E+02   3.018E+02   2.953E+02   2.950E+02   2.950E+02
IY=  1   3.943E+02   3.821E+02   3.528E+02   3.285E+02   3.097E+02   2.971E+02   2.950E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.142E+00   1.144E+00   1.147E+00   1.153E+00   1.160E+00   1.168E+00   1.176E+00   1.183E+00   1.185E+00
IY= 22   1.162E+00   1.162E+00   1.163E+00   1.165E+00   1.169E+00   1.174E+00   1.180E+00   1.186E+00   1.188E+00
IY= 21   1.174E+00   1.174E+00   1.175E+00   1.177E+00   1.181E+00   1.186E+00   1.191E+00   1.195E+00   1.195E+00
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IY= 20    1.188E+00    1.189E+00    1.190E+00    1.191E+00    1.194E+00    1.196E+00    1.198E+00    1.199E+00    1.199E+00
IY= 19    1.197E+00    1.198E+00    1.198E+00    1.199E+00    1.199E+00    1.200E+00    1.200E+00    1.201E+00    1.201E+00
IY= 18    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00
IY= 17    1.200E+00    1.200E+00    1.200E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00
IY= 16    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.201E+00
IY= 15    1.201E+00    1.201E+00    1.201E+00    1.201E+00    1.200E+00    1.200E+00    1.200E+00    1.201E+00    1.201E+00
IY= 14    1.200E+00    1.200E+00    1.201E+00    1.201E+00    1.200E+00    1.200E+00    1.200E+00    1.201E+00    1.201E+00
IY= 13    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.201E+00
IY= 12    1.199E+00    1.199E+00    1.199E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.200E+00    1.201E+00
IY= 11    1.197E+00    1.197E+00    1.198E+00    1.198E+00    1.199E+00    1.199E+00    1.200E+00    1.200E+00    1.201E+00
IY= 10    1.189E+00    1.189E+00    1.191E+00    1.195E+00    1.198E+00    1.199E+00    1.199E+00    1.200E+00    1.201E+00
IY=  9    1.146E+00    1.148E+00    1.157E+00    1.171E+00    1.188E+00    1.198E+00    1.199E+00    1.200E+00    1.201E+00
IY=  8    1.023E+00    1.033E+00    1.063E+00    1.106E+00    1.156E+00    1.191E+00    1.198E+00    1.200E+00    1.201E+00
IY=  7    7.890E-01    8.150E-01    8.911E-01    9.895E-01    1.098E+00    1.176E+00    1.196E+00    1.200E+00    1.201E+00
IY=  6    5.244E-01    5.585E-01    6.691E-01    8.444E-01    1.024E+00    1.156E+00    1.195E+00    1.200E+00    1.201E+00
IY=  5    3.789E-01    4.150E-01    5.724E-01    6.970E-01    9.542E-01    1.135E+00    1.194E+00    1.200E+00    1.201E+00
IY=  4    2.959E-01    3.265E-01    4.967E-01    6.581E-01    9.307E-01    1.128E+00    1.193E+00    1.200E+00    1.201E+00
IY=  3    4.274E-01    4.501E-01    5.685E-01    7.060E-01    9.618E-01    1.142E+00    1.194E+00    1.200E+00    1.201E+00
IY=  2    5.553E-01    5.850E-01    6.854E-01    8.581E-01    1.039E+00    1.169E+00    1.196E+00    1.200E+00    1.201E+00
IY=  1    8.858E-01    9.134E-01    9.910E-01    1.068E+00    1.137E+00    1.189E+00    1.198E+00    1.200E+00    1.201E+00
 IX=        1            2            3            4            5            6            7            8            9

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TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    29 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 29, ISWEEP=  70, ISTEP=    1
FIELD VALUES OF P1
IY= 23  -8.409E-01   -8.746E-01   -8.931E-01   -9.210E-01   -9.491E-01   -9.724E-01   -9.844E-01   -9.494E-01   -9.855E-01
IY= 22  -9.197E-01   -9.204E-01   -9.267E-01   -9.366E-01   -9.469E-01   -9.562E-01   -9.606E-01   -9.349E-01   -9.543E-01
IY= 21  -9.252E-01   -9.221E-01   -9.236E-01   -9.254E-01   -9.267E-01   -9.262E-01   -9.249E-01   -9.039E-01   -9.173E-01
IY= 20  -9.205E-01   -9.194E-01   -9.198E-01   -9.200E-01   -9.200E-01   -9.194E-01   -9.186E-01   -9.014E-01   -9.120E-01
IY= 19  -9.200E-01   -9.198E-01   -9.201E-01   -9.205E-01   -9.211E-01   -9.222E-01   -9.239E-01   -9.135E-01   -9.227E-01
IY= 18  -9.187E-01   -9.181E-01   -9.185E-01   -9.192E-01   -9.208E-01   -9.246E-01   -9.321E-01   -9.368E-01   -9.558E-01
IY= 17  -9.177E-01   -9.171E-01   -9.176E-01   -9.186E-01   -9.209E-01   -9.264E-01   -9.384E-01   -9.644E-01   -1.034E+00
IY= 16  -9.161E-01   -9.162E-01   -9.167E-01   -9.177E-01   -9.201E-01   -9.267E-01   -9.466E-01   -1.021E+00   -1.387E+00
IY= 15  -2.314E+01   -2.608E+01   -3.054E+01   -3.467E+01   -3.951E+01   -4.435E+01   -4.982E+01   -3.067E+01   -4.214E+00
IY= 14  -2.700E+01   -2.859E+01   -3.128E+01   -3.496E+01   -3.952E+01   -4.452E+01   -4.854E+01   -3.794E+01   -1.365E+00
IY= 13  -4.271E+01   -4.240E+01   -4.254E+01   -4.421E+01   -4.747E+01   -5.171E+01   -5.508E+01   -4.189E+01   -1.108E+00
IY= 12  -8.085E+01   -7.951E+01   -7.741E+01   -7.596E+01   -7.442E+01   -7.295E+01   -7.237E+01   -5.045E+01   -1.047E+00
IY= 11  -1.450E+02   -1.616E+02   -1.603E+02   -1.476E+02   -1.288E+02   -1.085E+02   -9.887E+01   -6.253E+01   -1.028E+00
IY= 10  -1.478E+02   -1.935E+02   -1.891E+02   -1.758E+02   -1.528E+02   -1.246E+02   -1.126E+02   -6.898E+01   -1.017E+00
IY=  9  -4.793E+01   -1.351E+02   -1.546E+02   -1.741E+02   -1.725E+02   -1.457E+02   -1.264E+02   -7.435E+01   -1.006E+00
IY=  8   1.639E+02    4.526E+01   -2.664E+01   -1.200E+02   -1.734E+02   -1.649E+02   -1.425E+02   -7.949E+01   -9.957E-01
IY=  7   3.861E+02    2.654E+02    1.464E+02   -1.441E+01   -1.489E+02   -1.751E+02   -1.561E+02   -8.407E+01   -9.860E-01
IY=  6   3.669E+02    2.631E+02    2.075E+02    6.582E+01   -1.160E+02   -1.786E+02   -1.646E+02   -8.756E+01   -9.776E-01
IY=  5  -2.184E+02   -2.401E+02   -9.630E+01   -1.500E+01   -1.150E+02   -1.836E+02   -1.727E+02   -9.064E+01   -9.691E-01
IY=  4   1.233E+02   -1.510E+02   -3.234E+02   -1.433E+02   -1.517E+02   -1.995E+02   -1.820E+02   -9.343E+01   -9.608E-01
IY=  3  -5.403E+02   -5.801E+02   -9.530E+01   -1.994E+02   -2.091E+02   -2.173E+02   -1.875E+02   -9.458E+01   -9.566E-01
IY=  2  -1.868E+02   -2.524E+02   -2.568E+02   -2.377E+02   -2.600E+02   -2.361E+02   -1.915E+02   -9.538E+01   -9.509E-01
IY=  1  -2.723E+02   -2.924E+02   -3.067E+02   -2.852E+02   -2.663E+02   -2.247E+02   -1.870E+02   -9.518E+01   -9.486E-01
 IX=        1            2            3            4            5            6            7            8            9
FIELD VALUES OF U1
IY= 23  -3.104E-02   -5.944E-02   -9.447E-02   -1.166E-01   -1.244E-01   -1.156E-01   -1.014E-01   -7.482E-03
IY= 22   2.835E-03    5.166E-03    7.593E-03    8.051E-03    4.272E-03   -8.207E-03   -2.788E-02    2.762E-02
IY= 21   7.041E-03    1.268E-02    1.673E-02    1.388E-02   -9.976E-05   -2.025E-02   -4.031E-02    1.840E-02
IY= 20   3.993E-03    6.466E-03    5.327E-03   -1.832E-03   -1.798E-02   -3.561E-02   -5.080E-02    1.270E-02
IY= 19   1.662E-03    2.638E-03    2.051E-03   -7.838E-04   -7.132E-03   -1.637E-02   -3.005E-02    2.570E-02
IY= 18   4.930E-03    9.472E-03    1.597E-02    2.284E-02    3.274E-02    4.131E-02    3.890E-02    7.833E-02
IY= 17   7.576E-03    1.423E-02    2.458E-02    3.680E-02    5.723E-02    8.207E-02    1.033E-01    1.661E-01
IY= 16   8.385E-03    1.703E-02    2.903E-02    4.368E-02    7.096E-02    1.144E-01    1.849E-01    3.939E-01
IY= 15  -1.468E+00   -2.614E+00   -3.766E+00   -4.586E+00   -5.403E+00   -6.120E+00   -6.846E+00   -5.737E+00
IY= 14  -4.716E-01   -8.390E-01   -1.234E+00   -1.555E+00   -2.082E+00   -2.751E+00   -3.304E+00    5.487E-08
IY= 13  -7.457E-01   -1.110E+00   -1.368E+00   -1.571E+00   -1.966E+00   -2.604E+00   -3.269E+00    7.919E-08
IY= 12  -1.117E+00   -1.687E+00   -2.152E+00   -2.559E+00   -2.980E+00   -3.468E+00   -4.027E+00    5.605E-08
IY= 11  -1.379E+00   -2.407E+00   -3.511E+00   -4.305E+00   -4.737E+00   -4.824E+00   -5.090E+00    1.190E-14
IY= 10  -1.682E+00   -3.130E+00   -4.924E+00   -6.100E+00   -6.599E+00   -6.017E+00   -5.801E+00    1.082E-21
IY=  9  -1.739E+00   -3.215E+00   -5.101E+00   -6.604E+00   -7.880E+00   -7.307E+00   -6.426E+00    1.292E-26
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IY=  8  -1.434E+00  -2.666E+00  -4.295E+00  -5.958E+00  -7.971E+00  -8.108E+00  -7.110E+00   1.292E-26
IY=  7  -8.171E-01  -1.598E+00  -2.573E+00  -4.423E+00  -7.402E+00  -8.392E+00  -7.639E+00   1.292E-26
IY=  6  -2.448E-01  -6.879E-01  -3.565E-01  -2.671E+00  -6.726E+00  -8.496E+00  -7.886E+00   9.694E-27
IY=  5  -3.661E+00  -4.910E+00  -1.069E+00  -2.538E+00  -6.640E+00  -8.649E+00  -8.105E+00   1.292E-26
IY=  4  -5.544E+00  -7.883E+00  -2.442E+00  -4.680E+00  -7.821E+00  -9.101E+00  -8.381E+00   1.616E-26
IY=  3  -1.903E+00  -3.835E+00  -1.618E+00  -7.064E+00  -9.220E+00  -9.380E+00  -8.484E+00   6.462E-27
IY=  2  -4.031E+00  -8.150E+00  -1.098E+01  -1.115E+01  -1.091E+01  -9.527E+00  -8.394E+00   2.262E-26
IY=  1  -2.122E+00  -8.303E+00  -1.003E+01  -8.418E+00  -8.193E+00  -8.363E+00  -8.206E+00   2.262E-26
 IX=        1           2           3           4           5           6           7          8
FIELD VALUES OF V1
IY= 22  -5.337E-01  -5.154E-01  -4.767E-01  -4.093E-01  -3.193E-01  -2.173E-01  -1.348E-01  -7.648E-02  -5.721E-02
IY= 21  -3.237E-01  -3.090E-01  -2.763E-01  -2.240E-01  -1.635E-01  -1.106E-01  -7.871E-02  -6.068E-02  -6.414E-02
IY= 20  -1.737E-01  -1.658E-01  -1.482E-01  -1.233E-01  -1.001E-01  -8.930E-02  -8.655E-02  -8.109E-02  -9.653E-02
IY= 19  -7.709E-02  -7.567E-02  -7.323E-02  -7.347E-02  -8.030E-02  -9.417E-02  -1.046E-01  -1.029E-01  -1.273E-01
IY= 18  -1.305E-02  -1.502E-02  -2.094E-02  -3.441E-02  -5.690E-02  -9.022E-02  -1.247E-01  -1.478E-01  -2.012E-01
IY= 17   3.020E-03   6.545E-04  -5.445E-03  -1.824E-02  -3.965E-02  -7.321E-02  -1.163E-01  -1.689E-01  -2.666E-01
IY= 16   1.678E-02   1.322E-02   8.479E-03  -5.843E-04  -1.602E-02  -4.130E-02  -8.024E-02  -1.527E-01  -3.764E-01
IY= 15   5.506E-11   5.506E-11   8.002E-11   8.019E-11   8.527E-11  -4.372E-11  -4.992E-10  -6.683E-07  -7.093E-01
IY= 14  -2.308E+00  -1.595E+00  -1.045E+00  -7.410E-01  -5.627E-01  -4.863E-01  -4.397E-01  -7.279E-01   1.789E+00
IY= 13  -5.599E+00  -4.943E+00  -4.344E+00  -3.779E+00  -3.290E+00  -2.669E+00  -1.861E+00  -8.642E-01   8.518E-01
IY= 12  -9.746E+00  -9.203E+00  -8.591E+00  -7.789E+00  -6.837E+00  -5.446E+00  -3.693E+00  -1.499E+00   5.814E-01
IY= 11  -1.449E+01  -1.454E+01  -1.400E+01  -1.287E+01  -1.087E+01  -8.079E+00  -5.229E+00  -1.975E+00   4.119E-01
IY= 10  -1.468E+01  -1.486E+01  -1.438E+01  -1.315E+01  -1.058E+01  -7.397E+00  -4.471E+00  -1.440E+00   3.234E-01
IY=  9  -1.198E+01  -1.218E+01  -1.196E+01  -1.113E+01  -9.247E+00  -6.245E+00  -3.709E+00  -1.185E+00   2.754E-01
IY=  8  -8.893E+00  -8.926E+00  -8.787E+00  -8.530E+00  -7.664E+00  -5.310E+00  -3.030E+00  -1.019E+00   2.380E-01
IY=  7  -6.221E+00  -5.890E+00  -5.402E+00  -5.681E+00  -5.981E+00  -4.450E+00  -2.555E+00  -8.306E-01   2.051E-01
IY=  6  -5.553E+00  -4.674E+00  -3.083E+00  -3.622E+00  -4.816E+00  -3.842E+00  -2.198E+00  -6.362E-01   1.752E-01
IY=  5  -4.707E+00  -4.302E+00  -3.261E+00  -4.059E+00  -4.939E+00  -3.717E+00  -1.939E+00  -5.085E-01   1.504E-01
IY=  4  -3.628E+00  -4.347E+00  -5.477E+00  -6.722E+00  -6.104E+00  -3.909E+00  -1.668E+00  -3.896E-01   1.220E-01
IY=  3   8.164E+00   6.669E+00   2.592E+00  -6.857E+00  -7.106E+00  -3.807E+00  -1.240E+00  -2.329E-01   9.084E-02
IY=  2   4.747E+00   3.667E+00  -1.948E+00  -8.766E+00  -7.072E+00  -3.367E+00  -9.705E-01  -1.500E-01   7.644E-02
IY=  1   3.446E+00  -7.749E-01  -8.036E+00  -7.970E+00  -4.455E+00  -9.213E-01  -7.086E-02  -2.319E-03   3.755E-02
 IX=        1           2           3           4           5           6           7          8           9
FIELD VALUES OF W1
IY= 23  -2.194E+00  -2.106E+00  -1.918E+00  -1.606E+00  -1.220E+00  -7.852E-01  -4.174E-01  -1.424E-01  -1.848E-08
IY= 22  -8.734E-01  -8.376E-01  -7.563E-01  -6.130E-01  -4.204E-01  -2.010E-01  -2.052E-02   9.846E-02   1.679E-01
IY= 21  -4.240E-01  -4.035E-01  -3.554E-01  -2.713E-01  -1.615E-01  -4.878E-02   3.534E-02   8.523E-02   1.222E-01
IY= 20  -2.045E-01  -1.929E-01  -1.657E-01  -1.212E-01  -6.733E-02  -1.428E-02   2.463E-02   4.714E-02   6.656E-02
IY= 19  -1.041E-01  -1.001E-01  -9.201E-02  -8.010E-02  -6.585E-02  -5.030E-02  -3.719E-02  -2.467E-02  -2.925E-02
IY= 18  -6.406E-02  -6.344E-02  -6.402E-02  -6.623E-02  -7.025E-02  -7.803E-02  -9.007E-02  -9.833E-02  -1.423E-01
IY= 17  -4.185E-02  -4.244E-02  -4.584E-02  -5.335E-02  -6.635E-02  -8.925E-02  -1.243E-01  -1.629E-01  -2.795E-01
IY= 16  -1.590E-02  -1.855E-02  -2.324E-02  -3.229E-02  -4.919E-02  -8.369E-02  -1.542E-01  -2.661E-01  -6.633E-01
IY= 15   2.073E-09   6.910E-10   1.130E-10  -2.534E-10  -2.048E-10  -3.865E-10  -1.719E-09  -1.015E-06  -1.390E+00
IY= 14   1.909E-08   1.448E-08   1.967E-08   1.756E-08   1.992E-08   1.437E-08   8.787E-09   1.716E-09  -3.167E-01
IY= 13   3.354E-08   3.907E-08   6.192E-08   5.502E-08   5.609E-08   3.235E-08   1.483E-08   2.917E-09   3.913E-01
IY= 12   3.841E-08   7.023E-08   1.230E-07   1.078E-07   1.008E-07   4.769E-08   1.559E-08   2.702E-09   5.822E-01
IY= 11   1.914E+00   1.505E+00   1.325E+00   8.315E-01   2.734E-01  -7.853E-02   2.244E-01   3.515E-01   6.768E-01
IY= 10   9.840E+00   8.558E+00   6.257E+00   2.965E+00  -5.122E-01  -1.795E+00  -1.074E+00  -3.332E-01   7.119E-01
IY=  9   2.209E+01   1.956E+01   1.471E+01   7.816E+00   6.260E-01  -3.734E+00  -2.839E+00  -8.801E-01   7.261E-01
IY=  8   4.353E+01   3.892E+01   2.951E+01   1.678E+01   4.012E+00  -4.139E+00  -4.411E+00  -1.323E+00   7.332E-01
IY=  7   8.072E+01   7.233E+01   5.373E+01   3.077E+01   9.440E+00  -3.386E+00  -5.093E+00  -1.671E+00   7.364E-01
IY=  6   1.649E+02   1.469E+02   9.832E+01   4.797E+01   1.511E+01  -2.366E+00  -5.555E+00  -1.895E+00   7.371E-01
IY=  5   4.319E+02   3.928E+02   2.753E+02   7.577E+01   1.910E+01  -1.825E+00  -5.990E+00  -2.053E+00   7.372E-01
IY=  4   4.374E+02   4.105E+02   3.315E+02   9.928E+01   2.020E+01  -2.704E+00  -6.427E+00  -2.152E+00   7.357E-01
IY=  3   4.163E+02   3.817E+02   2.714E+02   7.117E+01   1.392E+01  -4.981E+00  -6.723E+00  -2.147E+00   7.303E-01
IY=  2   1.545E+02   1.317E+02   7.352E+01   2.950E+01   3.646E+00  -8.561E+00  -7.245E+00  -2.089E+00   7.273E-01
IY=  1   1.142E+01   8.916E+00   6.289E+00  -4.629E+00  -1.096E+01  -1.167E+01  -7.187E+00  -2.012E+00   7.185E-01
 IX=        1           2           3           4           5           6           7          8           9
FIELD VALUES OF KE
IY= 23   5.787E-01   6.053E-01   6.577E-01   7.124E-01   7.220E-01   6.331E-01   4.848E-01   3.385E-01   2.945E-01
IY= 22   4.006E-01   4.033E-01   4.065E-01   4.005E-01   3.729E-01   3.122E-01   2.386E-01   1.706E-01   1.614E-01
IY= 21   1.967E-01   1.955E-01   1.916E-01   1.808E-01   1.612E-01   1.341E-01   1.078E-01   8.418E-02   8.975E-02
IY= 20   8.090E-02   8.006E-02   7.798E-02   7.419E-02   6.970E-02   6.485E-02   5.891E-02   5.173E-02   6.144E-02
IY= 19   2.565E-02   2.608E-02   2.718E-02   2.937E-02   3.263E-02   3.605E-02   3.735E-02   3.577E-02   4.732E-02
IY= 18   1.458E-02   1.488E-02   1.606E-02   1.892E-02   2.374E-02   3.076E-02   3.833E-02   4.527E-02   6.725E-02
IY= 17   1.099E-02   1.070E-02   1.129E-02   1.355E-02   1.808E-02   2.642E-02   3.961E-02   6.216E-02   1.168E-01
IY= 16   6.118E-06   8.969E-06   1.708E-05   3.390E-05   7.309E-05   1.768E-04   4.621E-04   1.356E-03   2.353E-01
IY= 15   2.006E-02   3.067E-02   6.535E-02   1.058E-01   1.463E-01   1.898E-01   2.353E-01   2.230E-01   1.747E-01
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IY= 14   9.473E-02   6.856E-02   5.277E-02   4.533E-02   4.513E-02   5.272E-02   6.502E-02   1.397E-02   1.266E-02
IY= 13   3.167E-01   2.748E-01   2.375E-01   1.983E-01   1.631E-01   1.260E-01   9.735E-02   1.863E-02   5.048E-03
IY= 12   7.319E-01   7.081E-01   6.560E-01   5.674E-01   4.447E-01   3.006E-01   1.898E-01   3.253E-02   4.493E-03
IY= 11   2.170E+02   1.766E+02   1.089E+02   2.439E+01   6.676E-01   4.379E-01   1.915E-01   1.973E-02   4.545E-03
IY= 10   1.606E+03   1.400E+03   9.997E+02   5.098E+02   1.211E+02   3.563E+00   1.853E-01   1.248E-02   4.567E-03
IY=  9   3.988E+03   3.544E+03   2.650E+03   1.528E+03   5.346E+02   6.435E+01   4.496E+00   1.343E-02   4.544E-03
IY=  8   7.411E+03   6.591E+03   4.932E+03   2.998E+03   1.186E+03   2.074E+02   2.073E+01   1.717E-02   4.499E-03
IY=  7   1.106E+04   9.723E+03   7.024E+03   4.560E+03   1.974E+03   4.047E+02   4.697E+01   2.146E-02   4.443E-03
IY=  6   7.573E+03   6.571E+03   4.537E+03   5.019E+03   2.562E+03   5.791E+02   6.565E+01   2.486E-02   4.383E-03
IY=  5   8.796E+03   7.603E+03   2.725E+03   2.845E+03   2.787E+03   6.814E+02   7.769E+01   2.770E-02   4.329E-03
IY=  4   3.106E+04   2.731E+04   7.855E+03   3.187E+03   2.954E+03   6.715E+02   7.719E+01   2.946E-02   4.263E-03
IY=  3   1.343E+04   1.176E+04   4.317E+03   2.866E+03   2.491E+03   5.267E+02   5.983E+01   2.902E-02   4.178E-03
IY=  2   3.948E+03   3.538E+03   2.528E+03   3.847E+03   1.742E+03   3.061E+02   2.360E+01   2.743E-02   4.122E-03
IY=  1   6.313E-01   5.084E-01   5.821E-01   5.077E-01   8.610E-01   9.269E-01   5.679E-01   6.974E-02   4.020E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.611E-01   1.690E-01   1.847E-01   1.992E-01   1.956E-01   1.559E-01   9.894E-02   5.402E-02   3.976E-02
IY= 22   7.926E-02   7.999E-02   8.075E-02   7.829E-02   6.890E-02   5.076E-02   3.203E-02   1.791E-02   1.483E-02
IY= 21   2.916E-02   2.883E-02   2.775E-02   2.496E-02   2.022E-02   1.437E-02   9.584E-03   6.197E-03   6.268E-03
IY= 20   8.566E-03   8.346E-03   7.805E-03   6.871E-03   5.732E-03   4.653E-03   3.741E-03   3.004E-03   3.651E-03
IY= 19   1.710E-03   1.688E-03   1.663E-03   1.688E-03   1.769E-03   1.877E-03   1.895E-03   1.817E-03   2.627E-03
IY= 18   5.918E-04   5.987E-04   6.485E-04   7.849E-04   1.032E-03   1.433E-03   1.924E-03   2.518E-03   4.475E-03
IY= 17   3.930E-04   3.653E-04   3.815E-04   4.820E-04   7.114E-04   1.211E-03   2.222E-03   4.883E-03   1.414E-02
IY= 16   2.157E-08   3.828E-08   1.006E-07   2.814E-07   8.906E-07   3.350E-06   1.416E-05   7.115E-05   2.544E-01
IY= 15   6.336E-03   1.197E-02   3.725E-02   7.671E-02   1.248E-01   1.843E-01   2.545E-01   2.348E-01   3.037E-01
IY= 14   5.781E-02   3.559E-02   2.403E-02   1.913E-02   1.901E-02   2.400E-02   3.288E-02   2.770E-03   2.052E-03
IY= 13   3.534E-01   2.857E-01   2.294E-01   1.750E-01   1.306E-01   8.871E-02   6.023E-02   4.269E-03   5.171E-04
IY= 12   1.241E+00   1.181E+00   1.053E+00   8.475E-01   5.881E-01   3.267E-01   1.639E-01   9.844E-03   4.341E-04
IY= 11   1.321E+03   8.522E+02   2.926E+02   5.281E+01   1.116E+00   6.412E-01   2.179E-01   3.807E-03   4.417E-04
IY= 10   3.488E+04   2.868E+04   1.771E+04   6.663E+03   7.669E+02   1.221E+01   2.896E-01   1.914E-03   4.449E-04
IY=  9   1.253E+05   1.064E+05   7.092E+04   3.290E+04   7.369E+03   2.525E+02   4.658E+00   2.138E-03   4.416E-04
IY=  8   3.072E+05   2.615E+05   1.745E+05   8.740E+04   2.356E+04   1.759E+03   2.564E+01   3.090E-03   4.351E-04
IY=  7   5.872E+05   4.944E+05   3.146E+05   1.683E+05   5.038E+04   5.235E+03   6.682E+01   4.317E-03   4.269E-04
IY=  6   5.290E+05   4.368E+05   2.507E+05   2.226E+05   7.617E+04   9.159E+03   1.389E+02   5.382E-03   4.183E-04
IY=  5   4.023E+05   3.621E+05   1.627E+05   1.464E+05   8.919E+04   1.169E+04   1.884E+02   6.333E-03   4.106E-04
IY=  4   1.318E+06   1.181E+06   3.506E+05   1.795E+05   1.000E+05   1.145E+04   1.805E+02   6.945E-03   4.013E-04
IY=  3   5.934E+05   5.401E+05   2.518E+05   1.539E+05   7.840E+04   7.741E+03   9.684E+01   6.788E-03   3.893E-04
IY=  2   2.682E+05   2.398E+05   1.474E+05   1.646E+05   4.485E+04   2.733E+03   3.322E+01   6.241E-03   3.815E-04
IY=  1   6.743E-01   4.873E-01   5.970E-01   4.862E-01   1.074E+00   1.199E+00   5.752E-01   2.502E-02   3.675E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.128E+05   3.124E+05   3.115E+05   3.100E+05   3.080E+05   3.056E+05   3.034E+05   3.015E+05   3.009E+05
IY= 22   3.076E+05   3.075E+05   3.072E+05   3.064E+05   3.052E+05   3.036E+05   3.018E+05   3.000E+05   2.997E+05
IY= 21   3.037E+05   3.036E+05   3.033E+05   3.025E+05   3.012E+05   2.997E+05   2.984E+05   2.975E+05   2.974E+05
IY= 20   2.993E+05   2.992E+05   2.989E+05   2.983E+05   2.977E+05   2.971E+05   2.967E+05   2.965E+05   2.965E+05
IY= 19   2.969E+05   2.968E+05   2.966E+05   2.965E+05   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05
IY= 18   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 17   2.964E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 16   2.962E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05
IY= 14   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.963E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.963E+05   2.963E+05   2.962E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   2.967E+05   2.966E+05   2.965E+05   2.962E+05   2.961E+05   2.961E+05   2.961E+05   2.962E+05   2.962E+05
IY= 10   3.030E+05   3.028E+05   3.021E+05   3.006E+05   2.980E+05   2.965E+05   2.963E+05   2.962E+05   2.962E+05
IY=  9   3.227E+05   3.215E+05   3.185E+05   3.131E+05   3.052E+05   2.983E+05   2.966E+05   2.962E+05   2.962E+05
IY=  8   3.654E+05   3.606E+05   3.499E+05   3.353E+05   3.174E+05   3.021E+05   2.970E+05   2.962E+05   2.962E+05
IY=  7   4.430E+05   4.297E+05   3.998E+05   3.677E+05   3.342E+05   3.077E+05   2.977E+05   2.962E+05   2.962E+05
IY=  6   5.984E+05   5.643E+05   4.774E+05   4.049E+05   3.512E+05   3.135E+05   2.984E+05   2.962E+05   2.962E+05
IY=  5   8.645E+05   8.134E+05   6.512E+05   4.581E+05   3.656E+05   3.182E+05   2.990E+05   2.962E+05   2.962E+05
IY=  4   8.968E+05   8.631E+05   7.626E+05   5.133E+05   3.746E+05   3.195E+05   2.990E+05   2.962E+05   2.962E+05
IY=  3   8.477E+05   8.101E+05   6.765E+05   4.691E+05   3.657E+05   3.161E+05   2.984E+05   2.962E+05   2.962E+05
IY=  2   6.397E+05   5.986E+05   4.934E+05   4.080E+05   3.495E+05   3.100E+05   2.971E+05   2.962E+05   2.962E+05
IY=  1   3.993E+05   3.877E+05   3.699E+05   3.498E+05   3.219E+05   3.003E+05   2.963E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.871E-01   1.951E-01   2.108E-01   2.293E-01   2.398E-01   2.314E-01   2.138E-01   1.909E-01   1.963E-01
IY= 22   1.822E-01   1.830E-01   1.841E-01   1.844E-01   1.817E-01   1.729E-01   1.600E-01   1.463E-01   1.581E-01
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IY= 21   1.194E-01   1.193E-01   1.190E-01   1.179E-01   1.157E-01   1.127E-01   1.092E-01   1.029E-01   1.157E-01
IY= 20   6.877E-02   6.913E-02   7.013E-02   7.209E-02   7.628E-02   8.133E-02   8.349E-02   8.019E-02   9.305E-02
IY= 19   3.463E-02   3.624E-02   4.000E-02   4.600E-02   5.417E-02   6.232E-02   6.624E-02   6.337E-02   7.671E-02
IY= 18   3.234E-02   3.327E-02   3.579E-02   4.107E-02   4.915E-02   5.944E-02   6.873E-02   7.326E-02   9.096E-02
IY= 17   2.765E-02   2.821E-02   3.007E-02   3.427E-02   4.134E-02   5.188E-02   6.353E-02   7.122E-02   8.687E-02
IY= 16   1.562E-04   1.891E-04   2.610E-04   3.677E-04   5.399E-04   8.396E-04   1.357E-03   2.325E-03   1.960E-02
IY= 15   5.717E-03   7.069E-03   1.032E-02   1.313E-02   1.544E-02   1.758E-02   1.958E-02   1.906E-02   9.040E-03
IY= 14   1.397E-02   1.189E-02   1.043E-02   9.665E-03   9.643E-03   1.042E-02   1.158E-02   6.339E-03   7.023E-03
IY= 13   2.555E-02   2.380E-02   2.212E-02   2.021E-02   1.834E-02   1.612E-02   1.416E-02   7.322E-03   4.436E-03
IY= 12   3.884E-02   3.820E-02   3.677E-02   3.420E-02   3.027E-02   2.489E-02   1.978E-02   9.673E-03   4.185E-03
IY= 11   3.209E+00   3.293E+00   3.651E+00   1.014E+00   3.595E-02   2.692E-02   1.515E-02   9.206E-03   4.209E-03
IY= 10   6.659E+00   6.150E+00   5.080E+00   3.511E+00   1.722E+00   9.355E-02   1.067E-02   7.320E-03   4.219E-03
IY=  9   1.142E+01   1.062E+01   8.910E+00   6.388E+00   3.491E+00   1.476E+00   3.906E-01   7.594E-03   4.208E-03
IY=  8   1.609E+01   1.495E+01   1.255E+01   9.258E+00   5.375E+00   2.201E+00   1.508E+00   8.587E-03   4.188E-03
IY=  7   1.874E+01   1.721E+01   1.411E+01   1.112E+01   6.958E+00   2.816E+00   2.972E+00   9.599E-03   4.161E-03
IY=  6   9.756E+00   8.897E+00   7.392E+00   1.018E+01   7.754E+00   3.296E+00   2.794E+00   1.033E-02   4.133E-03
IY=  5   1.731E+01   1.437E+01   4.108E+00   4.976E+00   7.836E+00   3.576E+00   2.883E+00   1.091E-02   4.108E-03
IY=  4   6.589E+01   5.685E+01   1.584E+01   5.091E+00   7.852E+00   3.544E+00   2.972E+00   1.125E-02   4.076E-03
IY=  3   2.736E+01   2.303E+01   6.660E+00   4.802E+00   7.123E+00   3.225E+00   3.327E+00   1.116E-02   4.035E-03
IY=  2   5.231E+00   4.700E+00   3.900E+00   8.091E+00   6.090E+00   3.086E+00   1.510E+00   1.085E-02   4.008E-03
IY=  1   5.320E-02   4.775E-02   5.109E-02   4.771E-02   6.213E-02   6.447E-02   5.046E-02   1.749E-02   3.959E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.115E+02   3.111E+02   3.103E+02   3.087E+02   3.068E+02   3.044E+02   3.022E+02   3.003E+02   2.997E+02
IY= 22   3.064E+02   3.063E+02   3.060E+02   3.052E+02   3.040E+02   3.024E+02   3.006E+02   2.988E+02   2.985E+02
IY= 21   3.025E+02   3.024E+02   3.021E+02   3.013E+02   3.000E+02   2.985E+02   2.973E+02   2.963E+02   2.962E+02
IY= 20   2.982E+02   2.980E+02   2.977E+02   2.971E+02   2.965E+02   2.959E+02   2.955E+02   2.953E+02   2.953E+02
IY= 19   2.957E+02   2.956E+02   2.954E+02   2.953E+02   2.952E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02
IY= 18   2.952E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 17   2.952E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 16   2.951E+02   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.955E+02   2.955E+02   2.953E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 10   3.018E+02   3.016E+02   3.009E+02   2.994E+02   2.968E+02   2.953E+02   2.951E+02   2.950E+02   2.950E+02
IY=  9   3.214E+02   3.202E+02   3.172E+02   3.119E+02   3.040E+02   2.971E+02   2.954E+02   2.950E+02   2.950E+02
IY=  8   3.639E+02   3.592E+02   3.485E+02   3.340E+02   3.161E+02   3.009E+02   2.958E+02   2.950E+02   2.950E+02
IY=  7   4.412E+02   4.280E+02   3.982E+02   3.662E+02   3.328E+02   3.065E+02   2.966E+02   2.950E+02   2.950E+02
IY=  6   5.960E+02   5.621E+02   4.755E+02   4.033E+02   3.498E+02   3.123E+02   2.972E+02   2.950E+02   2.950E+02
IY=  5   8.611E+02   8.101E+02   6.486E+02   4.563E+02   3.642E+02   3.169E+02   2.978E+02   2.950E+02   2.950E+02
IY=  4   8.933E+02   8.597E+02   7.595E+02   5.112E+02   3.731E+02   3.182E+02   2.978E+02   2.950E+02   2.950E+02
IY=  3   8.443E+02   8.069E+02   6.738E+02   4.672E+02   3.643E+02   3.148E+02   2.972E+02   2.950E+02   2.950E+02
IY=  2   6.371E+02   5.962E+02   4.914E+02   4.064E+02   3.481E+02   3.087E+02   2.959E+02   2.950E+02   2.950E+02
IY=  1   3.978E+02   3.862E+02   3.684E+02   3.484E+02   3.206E+02   2.992E+02   2.951E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.137E+00   1.139E+00   1.142E+00   1.147E+00   1.155E+00   1.164E+00   1.172E+00   1.180E+00   1.182E+00
IY= 22   1.156E+00   1.157E+00   1.158E+00   1.161E+00   1.165E+00   1.172E+00   1.179E+00   1.185E+00   1.187E+00
IY= 21   1.171E+00   1.172E+00   1.173E+00   1.176E+00   1.181E+00   1.187E+00   1.192E+00   1.196E+00   1.196E+00
IY= 20   1.188E+00   1.189E+00   1.190E+00   1.192E+00   1.195E+00   1.197E+00   1.199E+00   1.200E+00   1.200E+00
IY= 19   1.198E+00   1.198E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00
IY= 18   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 17   1.200E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 16   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 14   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00   1.201E+00
IY= 13   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 12   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 11   1.197E+00   1.197E+00   1.198E+00   1.199E+00   1.199E+00   1.200E+00   1.200E+00   1.200E+00   1.201E+00
IY= 10   1.172E+00   1.173E+00   1.175E+00   1.181E+00   1.192E+00   1.198E+00   1.199E+00   1.200E+00   1.201E+00
IY=  9   1.102E+00   1.105E+00   1.115E+00   1.134E+00   1.163E+00   1.191E+00   1.198E+00   1.200E+00   1.201E+00
IY=  8   9.750E-01   9.868E-01   1.016E+00   1.059E+00   1.119E+00   1.175E+00   1.196E+00   1.200E+00   1.201E+00
IY=  7   8.060E-01   8.300E-01   8.910E-01   9.672E-01   1.063E+00   1.154E+00   1.193E+00   1.200E+00   1.201E+00
IY=  6   5.966E-01   6.320E-01   7.467E-01   8.791E-01   1.012E+00   1.132E+00   1.190E+00   1.200E+00   1.201E+00
IY=  5   4.105E-01   4.363E-01   5.457E-01   7.764E-01   9.718E-01   1.116E+00   1.188E+00   1.200E+00   1.201E+00
IY=  4   3.971E-01   4.115E-01   4.650E-01   6.920E-01   9.482E-01   1.111E+00   1.187E+00   1.200E+00   1.201E+00
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IY=  3   4.174E-01   4.366E-01   5.253E-01   7.568E-01   9.705E-01   1.123E+00   1.190E+00   1.200E+00   1.201E+00
IY=  2   5.551E-01   5.928E-01   7.191E-01   8.698E-01   1.015E+00   1.145E+00   1.195E+00   1.200E+00   1.201E+00
IY=  1   8.883E-01   9.147E-01   9.588E-01   1.014E+00   1.102E+00   1.182E+00   1.198E+00   1.200E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9
*****************************************************************
TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    31 ITERN NO=     1



FLOW FIELD AT ITHYD=  1, IZ= 31, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -1.018E+00  -1.052E+00  -1.063E+00  -1.077E+00  -1.086E+00  -1.087E+00  -1.084E+00  -1.032E+00  -1.084E+00
IY= 22  -1.003E+00  -1.013E+00  -1.023E+00  -1.038E+00  -1.054E+00  -1.068E+00  -1.074E+00  -1.047E+00  -1.068E+00
IY= 21  -9.414E-01  -9.397E-01  -9.441E-01  -9.497E-01  -9.535E-01  -9.553E-01  -9.555E-01  -9.389E-01  -9.503E-01
IY= 20  -9.216E-01  -9.202E-01  -9.218E-01  -9.236E-01  -9.252E-01  -9.261E-01  -9.265E-01  -9.137E-01  -9.213E-01
IY= 19  -9.163E-01  -9.162E-01  -9.167E-01  -9.175E-01  -9.184E-01  -9.193E-01  -9.200E-01  -9.126E-01  -9.159E-01
IY= 18  -9.165E-01  -9.165E-01  -9.168E-01  -9.173E-01  -9.183E-01  -9.196E-01  -9.211E-01  -9.191E-01  -9.172E-01
IY= 17  -9.168E-01  -9.169E-01  -9.173E-01  -9.180E-01  -9.192E-01  -9.205E-01  -9.217E-01  -9.217E-01  -9.270E-01
IY= 16  -9.173E-01  -9.174E-01  -9.179E-01  -9.188E-01  -9.200E-01  -9.213E-01  -9.223E-01  -9.225E-01  -9.263E-01
IY= 15  -9.178E-01  -9.180E-01  -9.184E-01  -9.193E-01  -9.204E-01  -9.215E-01  -9.224E-01  -9.224E-01  -9.170E-01
IY= 14  -9.184E-01  -9.185E-01  -9.189E-01  -9.196E-01  -9.207E-01  -9.216E-01  -9.222E-01  -9.220E-01  -9.169E-01
IY= 13  -9.188E-01  -9.188E-01  -9.191E-01  -9.198E-01  -9.206E-01  -9.213E-01  -9.218E-01  -9.209E-01  -9.212E-01
IY= 12  -9.186E-01  -9.187E-01  -9.190E-01  -9.196E-01  -9.204E-01  -9.210E-01  -9.214E-01  -9.202E-01  -9.199E-01
IY= 11  -9.673E+01  -1.035E+02  -1.122E+02  -1.188E+02  -1.190E+02  -1.077E+02  -8.572E+01  -5.078E+01  -9.096E-01
IY= 10  -8.790E+01  -1.004E+02  -1.087E+02  -1.162E+02  -1.142E+02  -1.023E+02  -8.614E+01  -5.158E+01  -9.040E-01
IY=  9  -7.456E+01  -8.364E+01  -9.201E+01  -1.019E+02  -1.037E+02  -9.509E+01  -8.449E+01  -5.219E+01  -8.981E-01
IY=  8  -5.768E+01  -5.917E+01  -6.907E+01  -8.341E+01  -9.158E+01  -8.826E+01  -8.222E+01  -5.252E+01  -8.918E-01
IY=  7  -4.304E+01  -3.766E+01  -4.666E+01  -6.645E+01  -7.971E+01  -8.249E+01  -8.028E+01  -5.273E+01  -8.857E-01
IY=  6  -3.554E+01  -3.558E+01  -3.935E+01  -5.924E+01  -7.268E+01  -7.848E+01  -7.882E+01  -5.293E+01  -8.804E-01
IY=  5   1.302E+02   1.018E+02   6.814E+01  -6.868E+01  -7.128E+01  -7.622E+01  -7.815E+01  -5.320E+01  -8.747E-01
IY=  4   1.840E+02   1.450E+02   7.882E+01  -5.343E+01  -6.838E+01  -7.569E+01  -7.807E+01  -5.348E+01  -8.692E-01
IY=  3   1.461E+02   1.111E+02   5.729E+01  -5.417E+01  -7.136E+01  -7.587E+01  -7.827E+01  -5.362E+01  -8.668E-01
IY=  2  -4.845E+00  -2.440E+01  -6.438E+01  -7.241E+01  -7.541E+01  -7.745E+01  -7.861E+01  -5.374E+01  -8.627E-01
IY=  1   3.362E+01   2.417E+01  -3.676E+00  -4.023E+01  -6.300E+01  -7.192E+01  -7.650E+01  -5.350E+01  -8.621E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -4.018E-02  -7.679E-02  -1.210E-01  -1.470E-01  -1.525E-01  -1.332E-01  -1.065E-01   2.534E-04
IY= 22  -7.191E-03  -1.417E-02  -2.292E-02  -2.880E-02  -3.392E-02  -3.874E-02  -4.868E-02   2.288E-02
IY= 21   9.371E-03   1.719E-02   2.423E-02   2.169E-02   6.400E-03  -1.462E-02  -3.609E-02   2.264E-02
IY= 20   1.193E-02   2.031E-02   2.176E-02   1.179E-02  -9.421E-03  -3.075E-02  -4.864E-02   1.363E-02
IY= 19   4.327E-03   5.195E-03  -9.532E-05  -9.177E-03  -2.346E-02  -3.784E-02  -5.187E-02   1.192E-02
IY= 18   2.479E-03   2.325E-03  -1.088E-03  -5.452E-03  -1.206E-02  -1.908E-02  -3.142E-02   1.645E-02
IY= 17   1.845E-03   2.228E-03   1.613E-03  -1.647E-04  -5.008E-03  -1.170E-02  -2.189E-02   5.443E-02
IY= 16   1.232E-03   2.190E-03   4.518E-03   5.497E-03   2.773E-03  -4.972E-03  -1.654E-02   4.894E-02
IY= 15   1.295E-03   2.972E-03   7.237E-03   9.402E-03   6.620E-03  -3.499E-03  -1.772E-02   4.480E-02
IY= 14   2.116E-03   4.950E-03   9.154E-03   1.093E-02   7.825E-03  -3.647E-03  -1.921E-02   4.540E-02
IY= 13   4.260E-03   9.088E-03   1.388E-02   1.636E-02   1.305E-02  -3.843E-03  -2.519E-02   3.620E-02
IY= 12   8.305E-03   1.423E-02   2.027E-02   2.454E-02   2.250E-02   4.221E-03  -2.584E-02   2.221E-02
IY= 11  -5.412E-01  -1.330E+00  -2.555E+00  -3.787E+00  -4.130E+00  -3.984E+00  -4.386E+00   6.225E-09
IY= 10  -5.318E-01  -1.064E+00  -2.157E+00  -3.645E+00  -5.555E+00  -5.977E+00  -5.073E+00   1.656E-15
IY=  9  -2.462E-01  -5.581E-01  -1.372E+00  -2.775E+00  -4.983E+00  -6.020E+00  -5.231E+00   1.792E-21
IY=  8   1.578E-01   1.600E-01  -2.601E-01  -1.556E+00  -3.912E+00  -5.423E+00  -5.093E+00   4.747E-22
IY=  7   6.397E-01   9.966E-01   1.073E+00  -2.897E-01  -2.812E+00  -4.659E+00  -4.847E+00   3.008E-23
IY=  6   1.274E+00   2.163E+00   2.484E+00   5.246E-01  -2.117E+00  -4.142E+00  -4.656E+00   3.231E-26
IY=  5   6.674E-01   1.008E+00   5.318E-06   1.021E-01  -1.913E+00  -3.790E+00  -4.529E+00   3.877E-26
IY=  4   1.605E-01   1.687E-01   3.054E-07  -1.421E-01  -1.984E+00  -3.616E+00  -4.442E+00   4.524E-26
IY=  3   2.794E-01   2.351E-01  -6.582E-07  -1.144E+00  -2.439E+00  -3.639E+00  -4.409E+00   1.939E-26
IY=  2  -7.708E-01  -1.645E+00  -4.159E+00  -3.303E+00  -3.188E+00  -3.721E+00  -4.378E+00   6.139E-26
IY=  1  -1.429E+00  -1.448E+00  -5.330E-01   2.012E-01  -1.199E+00  -3.037E+00  -4.200E+00   6.139E-26
 IX=       1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -6.472E-01  -6.304E-01  -5.949E-01  -5.317E-01  -4.435E-01  -3.291E-01  -2.179E-01  -1.275E-01  -9.333E-02
IY= 21  -3.338E-01  -3.036E-01  -2.380E-01  -1.347E-01  -1.985E-02   6.239E-02   9.462E-02   9.229E-02   1.044E-01
IY= 20  -1.487E-01  -1.193E-01  -5.956E-02   1.193E-02   6.275E-02   7.508E-02   6.505E-02   4.609E-02   4.742E-02
IY= 19  -3.026E-02  -9.249E-03   2.365E-02   4.597E-02   4.914E-02   3.547E-02   1.878E-02   4.084E-03   7.587E-03
IY= 18   8.755E-03   2.071E-02   3.368E-02   3.676E-02   2.951E-02   1.422E-02   6.171E-04  -2.294E-03   7.844E-02
IY= 17   9.288E-03   1.753E-02   2.734E-02   3.079E-02   2.678E-02   1.635E-02   2.737E-03  -1.610E-02   1.713E-01
IY= 16   6.178E-03   1.235E-02   2.113E-02   2.526E-02   2.449E-02   2.104E-02   1.179E-02  -2.636E-03   2.364E-01
IY= 15   3.270E-04   6.057E-03   1.561E-02   2.019E-02   2.217E-02   2.547E-02   2.340E-02   7.747E-03   2.896E-01
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IY= 14  -2.394E-03   3.515E-03   1.349E-02   1.738E-02   1.930E-02   2.370E-02   2.315E-02   9.255E-03   3.165E-01
IY= 13  -5.111E-03   9.989E-04   8.745E-03   1.076E-02   1.294E-02   1.931E-02   2.085E-02   1.095E-02   3.377E-01
IY= 12  -3.956E-03   1.833E-03   4.700E-03   5.459E-03   7.233E-03   1.262E-02   1.264E-02   5.776E-03   3.247E-01
IY= 11   1.379E-08   1.247E-08   1.791E-08   1.465E-08   1.349E-08   7.347E-09  -7.252E-12   2.814E-10   2.984E-01
IY= 10  -8.830E-02  -2.569E-02   3.971E-01   9.325E-01   1.162E+00   9.126E-02  -1.326E+00  -8.433E-01   2.755E-01
IY=  9   3.695E-01   5.364E-01   8.212E-01   1.116E+00   1.274E+00   5.093E-01  -1.070E+00  -8.834E-01   2.540E-01
IY=  8   9.097E-01   1.088E+00   1.223E+00   1.146E+00   1.081E+00   6.403E-01  -6.727E-01  -7.069E-01   2.318E-01
IY=  7   1.363E+00   1.484E+00   1.484E+00   8.835E-01   5.634E-01   4.721E-01  -3.622E-01  -4.955E-01   2.082E-01
IY=  6   1.517E+00   1.472E+00   1.406E+00   1.050E-02  -3.979E-01   7.912E-03  -2.582E-01  -3.364E-01   1.838E-01
IY=  5   1.721E-07   9.294E-08  -1.839E-06  -1.767E+00  -1.630E+00  -5.773E-01  -2.830E-01  -2.423E-01   1.614E-01
IY=  4   6.239E-01   2.493E-01  -1.109E+00  -4.118E+00  -3.015E+00  -1.245E+00  -3.349E-01  -1.610E-01   1.336E-01
IY=  3  -4.240E-02  -4.752E-02  -2.640E-01  -7.422E+00  -4.452E+00  -1.646E+00  -3.137E-01  -9.122E-02   1.013E-01
IY=  2   2.438E-08   2.023E-08  -1.921E-05  -8.280E+00  -4.640E+00  -1.541E+00  -2.445E-01  -5.992E-02   8.590E-02
IY=  1  -3.006E+00  -4.806E+00  -4.737E+00  -5.277E+00  -2.740E+00  -9.298E-02   1.537E-01   3.570E-02   4.285E-02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -2.491E+00  -2.406E+00  -2.225E+00  -1.923E+00  -1.539E+00  -1.060E+00  -6.113E-01  -2.365E-01  -1.618E-07
IY= 22  -7.006E-01  -6.603E-01  -5.728E-01  -4.233E-01  -2.271E-01  -1.268E-02   1.586E-01   2.589E-01   3.405E-01
IY= 21  -3.267E-01  -2.978E-01  -2.349E-01  -1.342E-01  -2.769E-02   5.663E-02   1.105E-01   1.328E-01   1.722E-01
IY= 20  -1.478E-01  -1.234E-01  -7.613E-02  -2.669E-02   1.210E-02   4.185E-02   6.042E-02   6.551E-02   8.671E-02
IY= 19  -6.457E-02  -5.163E-02  -3.818E-02  -2.982E-02  -2.067E-02  -8.218E-03   5.205E-03   1.859E-02   6.039E-02
IY= 18  -6.174E-02  -5.762E-02  -5.469E-02  -5.133E-02  -4.323E-02  -3.219E-02  -1.945E-02  -8.479E-03   1.371E-01
IY= 17  -5.772E-02  -5.574E-02  -5.545E-02  -5.350E-02  -4.652E-02  -3.650E-02  -2.830E-02  -2.500E-02   1.731E-01
IY= 16  -5.107E-02  -5.105E-02  -5.336E-02  -5.137E-02  -4.241E-02  -2.923E-02  -2.240E-02  -2.441E-02   2.409E-01
IY= 15  -4.669E-02  -4.805E-02  -5.244E-02  -4.860E-02  -3.550E-02  -1.733E-02  -1.121E-02  -1.984E-02   3.255E-01
IY= 14  -4.528E-02  -4.859E-02  -5.266E-02  -4.716E-02  -3.171E-02  -9.619E-03  -1.228E-04  -1.140E-02   3.789E-01
IY= 13  -4.894E-02  -5.216E-02  -5.273E-02  -4.574E-02  -2.726E-02   5.017E-03   2.246E-02   9.796E-03   4.768E-01
IY= 12  -5.994E-02  -5.925E-02  -5.475E-02  -4.928E-02  -3.130E-02   2.030E-03   4.409E-02   4.322E-02   5.469E-01
IY= 11   1.152E+01   9.566E+00   7.018E+00   4.206E+00  -3.190E-01  -4.788E+00  -5.806E+00  -3.502E+00   5.744E-01
IY= 10   2.314E+01   2.156E+01   1.824E+01   1.284E+01   5.745E+00  -1.647E+00  -4.556E+00  -2.965E+00   5.746E-01
IY=  9   3.420E+01   3.201E+01   2.710E+01   1.925E+01   9.462E+00   7.055E-02  -3.783E+00  -2.462E+00   5.737E-01
IY=  8   5.029E+01   4.679E+01   3.876E+01   2.705E+01   1.360E+01   1.772E+00  -3.341E+00  -2.034E+00   5.730E-01
IY=  7   7.447E+01   6.840E+01   5.366E+01   3.580E+01   1.770E+01   3.412E+00  -3.061E+00  -1.717E+00   5.722E-01
IY=  6   1.275E+02   1.152E+02   7.549E+01   4.290E+01   2.039E+01   4.418E+00  -2.699E+00  -1.522E+00   5.713E-01
IY=  5   4.256E+02   3.926E+02   2.803E+02   5.317E+01   2.138E+01   4.840E+00  -2.355E+00  -1.365E+00   5.701E-01
IY=  4   4.142E+02   3.988E+02   3.518E+02   7.502E+01   2.322E+01   4.865E+00  -2.258E+00  -1.254E+00   5.678E-01
IY=  3   4.133E+02   3.877E+02   2.807E+02   6.497E+01   2.019E+01   3.605E+00  -2.382E+00  -1.211E+00   5.633E-01
IY=  2   1.496E+02   1.210E+02   6.036E+01   3.479E+01   1.410E+01   1.134E+00  -2.592E+00  -1.157E+00   5.616E-01
IY=  1   4.094E+01   3.958E+01   2.743E+01   1.795E+01   5.240E+00  -3.449E+00  -3.024E+00  -1.133E+00   5.543E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   5.939E-01   6.231E-01   6.873E-01   7.837E-01   8.686E-01   8.729E-01   7.563E-01   5.796E-01   5.173E-01
IY= 22   4.325E-01   4.374E-01   4.456E-01   4.465E-01   4.234E-01   3.570E-01   2.700E-01   1.882E-01   1.818E-01
IY= 21   1.761E-01   1.740E-01   1.659E-01   1.440E-01   1.142E-01   8.915E-02   7.195E-02   5.769E-02   6.611E-02
IY= 20   5.849E-02   5.545E-02   4.806E-02   3.986E-02   3.496E-02   3.389E-02   3.270E-02   2.968E-02   3.872E-02
IY= 19   1.211E-02   1.098E-02   9.726E-03   1.010E-02   1.184E-02   1.393E-02   1.434E-02   1.253E-02   2.039E-02
IY= 18   5.433E-03   4.347E-03   3.299E-03   2.919E-03   3.571E-03   4.930E-03   5.472E-03   3.436E-03   1.017E-02
IY= 17   4.619E-03   3.568E-03   2.497E-03   1.889E-03   1.762E-03   1.923E-03   1.924E-03   1.052E-03   1.220E-02
IY= 16   4.000E-03   2.867E-03   1.814E-03   1.268E-03   9.666E-04   6.652E-04   4.456E-04   3.916E-04   1.631E-02
IY= 15   3.382E-03   2.277E-03   1.343E-03   9.276E-04   6.831E-04   4.035E-04   2.910E-04   3.309E-04   1.870E-02
IY= 14   2.733E-03   1.702E-03   9.945E-04   7.210E-04   5.571E-04   3.164E-04   2.196E-04   3.139E-04   1.718E-02
IY= 13   1.797E-03   9.810E-04   5.427E-04   4.001E-04   3.115E-04   1.646E-04   1.400E-04   2.509E-04   1.506E-02
IY= 12   4.791E-05   4.762E-05   4.368E-05   3.943E-05   2.245E-05   3.611E-06   2.903E-05   2.670E-05   1.068E-02
IY= 11   6.344E-01   4.540E-01   2.727E-01   1.506E-01   8.986E-02   2.076E-01   2.642E-01   8.392E-02   3.276E-03
IY= 10   9.008E+02   8.341E+02   6.888E+02   4.674E+02   2.245E+02   3.047E+01   1.765E+00   5.586E-02   3.189E-03
IY=  9   1.509E+03   1.382E+03   1.113E+03   7.437E+02   3.599E+02   7.574E+01   1.437E+00   4.045E-02   3.103E-03
IY=  8   2.250E+03   2.031E+03   1.573E+03   1.041E+03   5.112E+02   1.276E+02   1.795E+00   2.818E-02   3.020E-03
IY=  7   2.856E+03   2.521E+03   1.808E+03   1.242E+03   6.377E+02   1.784E+02   7.155E+00   2.022E-02   2.942E-03
IY=  6   5.840E+01   4.838E+01   2.209E+01   1.074E+03   6.743E+02   2.023E+02   1.878E+01   1.593E-02   2.872E-03
IY=  5   5.392E+02   4.636E+02   2.459E+02   1.112E+01   6.541E+02   2.116E+02   2.369E+01   1.291E-02   2.804E-03
IY=  4   1.081E+04   9.408E+03   3.745E+02   2.112E+01   7.536E+02   2.166E+02   2.451E+01   1.095E-02   2.727E-03
IY=  3   5.523E+02   4.902E+02   2.570E+02   1.630E+01   6.603E+02   1.837E+02   2.085E+01   1.023E-02   2.653E-03
IY=  2   7.220E+01   4.857E+01   1.334E+01   7.637E+02   4.748E+02   1.209E+02   1.524E+01   9.389E-03   2.606E-03
IY=  1   6.485E+00   6.091E+00   3.087E+00   1.408E+00   1.475E-01   9.121E-02   1.206E-01   2.191E-02   2.529E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   1.910E-01   1.986E-01   2.173E-01   2.474E-01   2.724E-01   2.618E-01   2.004E-01   1.247E-01   9.506E-02
IY= 22   9.583E-02   9.713E-02   9.928E-02   9.899E-02   9.096E-02   6.994E-02   4.435E-02   2.413E-02   2.025E-02
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IY= 21   2.968E-02  2.916E-02  2.705E-02  2.128E-02  1.354E-02  7.947E-03  5.291E-03  3.650E-03  4.163E-03
IY= 20   7.115E-03  6.484E-03  4.872E-03  3.108E-03  2.057E-03  1.740E-03  1.568E-03  1.398E-03  1.965E-03
IY= 19   8.462E-04  6.374E-04  3.798E-04  3.143E-04  3.756E-04  4.866E-04  5.544E-04  5.618E-04  1.222E-03
IY= 18   2.549E-04  1.623E-04  8.658E-05  6.235E-05  8.047E-05  1.403E-04  1.834E-04  1.362E-04  1.652E-03
IY= 17   1.669E-04  1.033E-04  5.270E-05  3.467E-05  3.584E-05  5.122E-05  7.006E-05  6.226E-05  2.477E-03
IY= 16   1.285E-04  7.319E-05  3.474E-05  2.223E-05  1.945E-05  2.051E-05  2.450E-05  3.272E-05  4.011E-03
IY= 15   1.051E-04  5.510E-05  2.439E-05  1.548E-05  1.366E-05  1.344E-05  1.735E-05  3.139E-05  5.487E-03
IY= 14   8.555E-05  4.031E-05  1.777E-05  1.218E-05  1.124E-05  1.037E-05  1.282E-05  3.082E-05  3.697E-03
IY= 13   5.669E-05  2.247E-05  8.999E-06  6.309E-06  6.039E-06  4.936E-06  8.896E-06  2.647E-05  3.035E-03
IY= 12   4.120E-07  4.083E-07  3.587E-07  3.076E-07  1.321E-07  1.000E-08  1.943E-07  1.715E-07  2.003E-03
IY= 11   7.634E-01  4.621E-01  2.151E-01  8.832E-02  4.070E-02  1.429E-01  2.051E-01  3.506E-02  2.703E-04
IY= 10   1.633E+04  1.453E+04  1.083E+04  6.077E+03  2.040E+03  1.309E+02  4.314E+00  1.813E-02  2.597E-04
IY=  9   3.576E+04  3.129E+04  2.237E+04  1.222E+04  4.166E+03  4.019E+02  4.490E+00  1.117E-02  2.492E-04
IY=  8   7.034E+04  6.032E+04  4.057E+04  2.157E+04  7.356E+03  9.599E+02  4.688E+00  6.497E-03  2.393E-04
IY=  7   1.180E+05  9.815E+04  5.867E+04  3.167E+04  1.096E+04  1.675E+03  9.945E+00  3.949E-03  2.301E-04
IY=  6   1.124E+03  8.473E+02  2.615E+02  3.150E+04  1.279E+04  2.123E+03  2.470E+01  2.761E-03  2.219E-04
IY=  5   2.592E+04  2.066E+04  7.725E+03  7.185E+01  1.270E+04  2.299E+03  4.324E+01  2.016E-03  2.141E-04
IY=  4   4.981E+05  4.410E+05  1.404E+04  1.880E+02  1.667E+04  2.527E+03  4.790E+01  1.574E-03  2.053E-04
IY=  3   4.903E+04  4.099E+04  1.177E+04  1.275E+02  1.366E+04  1.980E+03  3.284E+01  1.422E-03  1.970E-04
IY=  2   8.246E+02  4.550E+02  6.552E+01  2.062E+04  7.828E+03  9.974E+02  1.533E+01  1.249E-03  1.917E-04
IY=  1   2.220E+01  2.021E+01  7.290E+00  2.247E+00  7.614E-02  3.703E-02  5.632E-02  4.407E-03  1.833E-04
 IX=        1          2          3          4          5          6          7          8          9
FIELD VALUES OF H1
IY= 23   3.146E+05  3.142E+05  3.134E+05  3.121E+05  3.104E+05  3.082E+05  3.060E+05  3.039E+05  3.035E+05
IY= 22   3.092E+05  3.091E+05  3.086E+05  3.077E+05  3.062E+05  3.042E+05  3.021E+05  3.002E+05  2.999E+05
IY= 21   3.046E+05  3.044E+05  3.036E+05  3.020E+05  3.000E+05  2.982E+05  2.972E+05  2.966E+05  2.965E+05
IY= 20   2.994E+05  2.990E+05  2.982E+05  2.972E+05  2.966E+05  2.963E+05  2.962E+05  2.962E+05  2.962E+05
IY= 19   2.966E+05  2.964E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 18   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 17   2.963E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 16   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 15   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 14   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 13   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 12   2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05  2.962E+05
IY= 11   3.010E+05  3.018E+05  3.035E+05  3.055E+05  3.058E+05  3.054E+05  3.037E+05  2.988E+05  2.962E+05
IY= 10   3.172E+05  3.176E+05  3.179E+05  3.167E+05  3.121E+05  3.043E+05  3.024E+05  2.985E+05  2.962E+05
IY=  9   3.393E+05  3.382E+05  3.353E+05  3.295E+05  3.195E+05  3.063E+05  3.010E+05  2.981E+05  2.962E+05
IY=  8   3.763E+05  3.719E+05  3.616E+05  3.476E+05  3.298E+05  3.099E+05  2.997E+05  2.975E+05  2.962E+05
IY=  7   4.323E+05  4.212E+05  3.960E+05  3.693E+05  3.414E+05  3.146E+05  2.991E+05  2.970E+05  2.962E+05
IY=  6   5.395E+05  5.129E+05  4.411E+05  3.884E+05  3.511E+05  3.184E+05  2.998E+05  2.967E+05  2.962E+05
IY=  5   8.563E+05  8.220E+05  6.753E+05  4.146E+05  3.582E+05  3.215E+05  3.001E+05  2.964E+05  2.962E+05
IY=  4   8.455E+05  8.339E+05  8.010E+05  4.568E+05  3.663E+05  3.233E+05  3.000E+05  2.963E+05  2.962E+05
IY=  3   8.493E+05  8.291E+05  7.060E+05  4.454E+05  3.628E+05  3.209E+05  2.995E+05  2.962E+05  2.962E+05
IY=  2   6.319E+05  5.768E+05  4.600E+05  4.009E+05  3.538E+05  3.153E+05  2.987E+05  2.962E+05  2.962E+05
IY=  1   4.246E+05  4.230E+05  3.989E+05  3.702E+05  3.345E+05  3.019E+05  2.967E+05  2.962E+05  2.962E+05
 IX=        1          2          3          4          5          6          7          8          9
FIELD VALUES OF VIST
IY= 23   1.663E-01  1.759E-01  1.956E-01  2.235E-01  2.493E-01  2.619E-01  2.569E-01  2.425E-01  2.533E-01
IY= 22   1.757E-01  1.773E-01  1.800E-01  1.813E-01  1.774E-01  1.640E-01  1.479E-01  1.321E-01  1.469E-01
IY= 21   9.402E-02  9.344E-02  9.157E-02  8.767E-02  8.675E-02  9.001E-02  8.806E-02  8.208E-02  9.449E-02
IY= 20   4.328E-02  4.268E-02  4.268E-02  4.602E-02  5.348E-02  5.939E-02  6.135E-02  5.674E-02  6.866E-02
IY= 19   1.560E-02  1.702E-02  2.241E-02  2.921E-02  3.358E-02  3.589E-02  3.338E-02  2.514E-02  3.064E-02
IY= 18   1.042E-02  1.048E-02  1.131E-02  1.230E-02  1.427E-02  1.559E-02  1.469E-02  7.804E-03  5.638E-03
IY= 17   1.150E-02  1.109E-02  1.065E-02  9.267E-03  7.796E-03  6.496E-03  4.755E-03  1.599E-03  5.412E-03
IY= 16   1.121E-02  1.010E-02  8.521E-03  6.511E-03  4.325E-03  1.942E-03  7.295E-04  4.218E-04  5.966E-03
IY= 15   9.795E-03  8.471E-03  6.659E-03  5.002E-03  3.074E-03  1.090E-03  4.391E-04  3.139E-04  5.737E-03
IY= 14   7.861E-03  6.471E-03  5.010E-03  3.841E-03  2.486E-03  8.690E-04  3.384E-04  2.877E-04  7.187E-03
IY= 13   5.126E-03  3.855E-03  2.945E-03  2.284E-03  1.446E-03  4.941E-04  1.983E-04  2.141E-04  6.726E-03
IY= 12   5.014E-04  4.999E-04  4.788E-04  4.549E-04  3.432E-04  1.173E-04  3.903E-04  3.743E-04  5.126E-03
IY= 11   4.745E-02  4.014E-02  3.111E-02  2.312E-02  1.786E-02  2.714E-02  3.062E-02  1.808E-02  3.573E-03
IY= 10   4.472E+00  4.311E+00  3.944E+00  3.236E+00  2.224E+00  6.383E-01  6.499E-02  1.549E-02  3.526E-03
IY=  9   5.730E+00  5.496E+00  4.983E+00  4.074E+00  2.798E+00  1.285E+00  4.138E-02  1.318E-02  3.478E-03
IY=  8   6.475E+00  6.155E+00  5.489E+00  4.519E+00  3.197E+00  1.527E+00  6.188E-02  1.100E-02  3.431E-03
IY=  7   6.224E+00  5.827E+00  5.017E+00  4.387E+00  3.341E+00  1.710E+00  4.633E-01  9.318E-03  3.386E-03
IY=  6   2.731E-01  2.486E-01  1.680E-01  3.297E+00  3.200E+00  1.734E+00  1.285E+00  8.270E-03  3.346E-03
IY=  5   1.010E+00  9.364E-01  7.045E-01  1.550E-01  3.031E+00  1.752E+00  1.168E+00  7.447E-03  3.306E-03
IY=  4   2.112E+01  1.807E+01  8.992E-01  2.136E-01  3.065E+00  1.670E+00  1.128E+00  6.857E-03  3.260E-03
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IY=  3   5.600E-01   5.276E-01   5.051E-01   1.876E-01   2.872E+00   1.534E+00   1.192E+00   6.629E-03   3.216E-03
IY=  2   5.690E-01   4.667E-01   2.446E-01   2.545E+00   2.592E+00   1.319E+00   1.364E+00   6.350E-03   3.187E-03
IY=  1   1.705E-01   1.653E-01   1.176E-01   7.947E-02   2.572E-02   2.022E-02   2.326E-02   9.805E-03   3.139E-03
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.133E+02   3.130E+02   3.122E+02   3.109E+02   3.092E+02   3.070E+02   3.048E+02   3.027E+02   3.022E+02
IY= 22   3.080E+02   3.078E+02   3.074E+02   3.065E+02   3.050E+02   3.030E+02   3.009E+02   2.990E+02   2.987E+02
IY= 21   3.034E+02   3.031E+02   3.024E+02   3.008E+02   2.988E+02   2.970E+02   2.960E+02   2.954E+02   2.953E+02
IY= 20   2.982E+02   2.978E+02   2.970E+02   2.961E+02   2.954E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02
IY= 19   2.954E+02   2.952E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 18   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 17   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 16   2.951E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 11   2.998E+02   3.006E+02   3.023E+02   3.043E+02   3.046E+02   3.042E+02   3.025E+02   2.976E+02   2.950E+02
IY= 10   3.160E+02   3.163E+02   3.166E+02   3.155E+02   3.109E+02   3.031E+02   3.012E+02   2.973E+02   2.950E+02
IY=  9   3.379E+02   3.368E+02   3.339E+02   3.281E+02   3.183E+02   3.051E+02   2.998E+02   2.969E+02   2.950E+02
IY=  8   3.748E+02   3.704E+02   3.602E+02   3.462E+02   3.285E+02   3.087E+02   2.985E+02   2.963E+02   2.950E+02
IY=  7   4.306E+02   4.196E+02   3.944E+02   3.679E+02   3.401E+02   3.134E+02   2.980E+02   2.958E+02   2.950E+02
IY=  6   5.373E+02   5.109E+02   4.393E+02   3.869E+02   3.497E+02   3.172E+02   2.986E+02   2.955E+02   2.950E+02
IY=  5   8.529E+02   8.187E+02   6.726E+02   4.129E+02   3.568E+02   3.202E+02   2.989E+02   2.952E+02   2.950E+02
IY=  4   8.421E+02   8.306E+02   7.978E+02   4.550E+02   3.648E+02   3.220E+02   2.988E+02   2.951E+02   2.950E+02
IY=  3   8.459E+02   8.258E+02   7.032E+02   4.436E+02   3.614E+02   3.196E+02   2.983E+02   2.950E+02   2.950E+02
IY=  2   6.293E+02   5.745E+02   4.582E+02   3.993E+02   3.524E+02   3.141E+02   2.975E+02   2.950E+02   2.950E+02
IY=  1   4.229E+02   4.213E+02   3.973E+02   3.687E+02   3.331E+02   3.007E+02   2.955E+02   2.950E+02   2.950E+02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.131E+00   1.132E+00   1.135E+00   1.140E+00   1.146E+00   1.154E+00   1.162E+00   1.170E+00   1.172E+00
IY= 22   1.150E+00   1.151E+00   1.153E+00   1.156E+00   1.162E+00   1.169E+00   1.177E+00   1.185E+00   1.186E+00
IY= 21   1.168E+00   1.169E+00   1.172E+00   1.178E+00   1.186E+00   1.193E+00   1.197E+00   1.199E+00   1.200E+00
IY= 20   1.188E+00   1.190E+00   1.193E+00   1.197E+00   1.199E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 19   1.199E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 18   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 17   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 16   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 14   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 12   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 11   1.181E+00   1.178E+00   1.171E+00   1.163E+00   1.162E+00   1.163E+00   1.170E+00   1.190E+00   1.201E+00
IY= 10   1.120E+00   1.119E+00   1.118E+00   1.122E+00   1.138E+00   1.168E+00   1.175E+00   1.191E+00   1.201E+00
IY=  9   1.048E+00   1.051E+00   1.060E+00   1.079E+00   1.112E+00   1.160E+00   1.181E+00   1.193E+00   1.201E+00
IY=  8   9.447E-01   9.560E-01   9.829E-01   1.023E+00   1.078E+00   1.147E+00   1.186E+00   1.195E+00   1.201E+00
IY=  7   8.224E-01   8.441E-01   8.978E-01   9.625E-01   1.041E+00   1.130E+00   1.188E+00   1.197E+00   1.201E+00
IY=  6   6.591E-01   6.932E-01   8.062E-01   9.152E-01   1.012E+00   1.116E+00   1.186E+00   1.198E+00   1.201E+00
IY=  5   4.159E-01   4.332E-01   5.271E-01   8.575E-01   9.924E-01   1.106E+00   1.185E+00   1.199E+00   1.201E+00
IY=  4   4.215E-01   4.271E-01   4.444E-01   7.782E-01   9.705E-01   1.099E+00   1.185E+00   1.200E+00   1.201E+00
IY=  3   4.194E-01   4.295E-01   5.041E-01   7.983E-01   9.797E-01   1.108E+00   1.187E+00   1.200E+00   1.201E+00
IY=  2   5.629E-01   6.166E-01   7.727E-01   8.865E-01   1.005E+00   1.127E+00   1.190E+00   1.200E+00   1.201E+00
IY=  1   8.380E-01   8.411E-01   8.918E-01   9.605E-01   1.063E+00   1.177E+00   1.198E+00   1.200E+00   1.201E+00
 IX=         1           2           3           4           5           6           7           8           9

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TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    33 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 33, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -1.104E+00  -1.147E+00  -1.169E+00  -1.203E+00  -1.232E+00  -1.244E+00  -1.240E+00  -1.171E+00  -1.253E+00
IY= 22  -1.413E+00  -1.444E+00  -1.453E+00  -1.462E+00  -1.460E+00  -1.439E+00  -1.404E+00  -1.330E+00  -1.331E+00
IY= 21  -9.713E-01  -9.717E-01  -9.697E-01  -9.697E-01  -9.705E-01  -9.741E-01  -9.766E-01  -9.794E-01  -9.984E-01
IY= 20  -9.265E-01  -9.279E-01  -9.287E-01  -9.305E-01  -9.318E-01  -9.323E-01  -9.324E-01  -9.288E-01  -9.344E-01
IY= 19  -9.139E-01  -9.143E-01  -9.152E-01  -9.163E-01  -9.180E-01  -9.194E-01  -9.199E-01  -9.109E-01  -9.120E-01
IY= 18  -9.089E-01  -9.098E-01  -9.119E-01  -9.139E-01  -9.162E-01  -9.175E-01  -9.176E-01  -9.029E-01  -9.004E-01
IY= 17  -9.085E-01  -9.092E-01  -9.114E-01  -9.136E-01  -9.163E-01  -9.179E-01  -9.181E-01  -9.031E-01  -8.985E-01
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IY= 16  -9.099E-01  -9.106E-01  -9.125E-01  -9.145E-01  -9.171E-01  -9.185E-01  -9.185E-01  -9.018E-01  -8.949E-01
IY= 15  -9.127E-01  -9.129E-01  -9.145E-01  -9.160E-01  -9.182E-01  -9.194E-01  -9.187E-01  -8.993E-01  -8.903E-01
IY= 14  -9.157E-01  -9.159E-01  -9.164E-01  -9.171E-01  -9.186E-01  -9.191E-01  -9.174E-01  -8.959E-01  -8.851E-01
IY= 13  -9.179E-01  -9.187E-01  -9.183E-01  -9.179E-01  -9.190E-01  -9.193E-01  -9.169E-01  -8.923E-01  -8.776E-01
IY= 12  -9.106E-01  -9.135E-01  -9.158E-01  -9.154E-01  -9.184E-01  -9.199E-01  -9.185E-01  -8.997E-01  -8.695E-01
IY= 11   1.579E+02   1.505E+02   1.193E+02   6.385E+01   9.827E+00  -2.792E+01  -2.006E+01   3.240E+01  -8.348E-01
IY= 10   1.824E+02   1.707E+02   1.335E+02   6.928E+01   4.765E+00  -4.037E+01  -4.298E+01   1.855E+00  -8.178E-01
IY=  9   1.124E+02   1.166E+02   8.470E+01   3.678E+01  -1.001E+01  -4.371E+01  -4.746E+01  -1.565E+01  -8.060E-01
IY=  8   7.366E+01   8.011E+01   4.997E+01   6.597E+00  -2.831E+01  -5.005E+01  -5.010E+01  -2.462E+01  -7.963E-01
IY=  7   6.405E+01   6.505E+01   3.291E+01  -1.395E+01  -4.032E+01  -5.256E+01  -5.048E+01  -2.903E+01  -7.883E-01
IY=  6   8.269E+01   6.695E+01   2.515E+01  -3.374E+01  -4.731E+01  -5.198E+01  -4.890E+01  -3.086E+01  -7.822E-01
IY=  5  -3.077E+02  -3.096E+02  -3.134E+02  -5.177E+01  -5.039E+01  -5.014E+01  -4.720E+01  -3.257E+01  -7.761E-01
IY=  4  -2.395E+02  -2.399E+02  -2.522E+02  -4.232E+01  -4.703E+01  -4.755E+01  -4.674E+01  -3.414E+01  -7.706E-01
IY=  3  -1.135E+02  -1.304E+02  -1.801E+02  -3.986E+01  -4.763E+01  -4.735E+01  -4.704E+01  -3.471E+01  -7.684E-01
IY=  2  -1.002E+02  -1.059E+02  -1.055E+02  -7.424E+01  -5.314E+01  -4.827E+01  -4.781E+01  -3.620E+01  -7.646E-01
IY=  1  -8.181E+01  -7.787E+01  -6.916E+01  -5.077E+01  -4.387E+01  -4.563E+01  -4.717E+01  -3.667E+01  -7.644E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -5.455E-02  -1.054E-01  -1.688E-01  -2.069E-01  -2.111E-01  -1.664E-01  -1.068E-01   2.647E-02
IY= 22  -3.792E-02  -7.539E-02  -1.276E-01  -1.629E-01  -1.779E-01  -1.712E-01  -1.546E-01  -2.188E-02
IY= 21  -5.300E-02  -7.557E-02  -5.348E-02  -1.178E-02   3.831E-03  -9.574E-03  -8.514E-03   9.398E-02
IY= 20  -2.038E-02  -5.880E-03  -1.102E-02  -3.493E-02  -5.208E-02  -6.062E-02  -5.993E-02   4.045E-02
IY= 19  -1.185E-02  -2.826E-02  -5.065E-02  -6.990E-02  -8.945E-02  -9.866E-02  -9.712E-02  -8.076E-03
IY= 18  -1.026E-02  -3.995E-02  -7.535E-02  -1.010E-01  -1.230E-01  -1.326E-01  -1.308E-01  -3.823E-02
IY= 17  -1.294E-02  -4.184E-02  -7.600E-02  -1.027E-01  -1.270E-01  -1.382E-01  -1.364E-01  -4.418E-02
IY= 16  -1.645E-02  -4.541E-02  -7.883E-02  -1.064E-01  -1.325E-01  -1.451E-01  -1.442E-01  -5.176E-02
IY= 15  -1.988E-02  -4.691E-02  -7.762E-02  -1.068E-01  -1.352E-01  -1.500E-01  -1.517E-01  -5.974E-02
IY= 14  -1.383E-02  -4.007E-02  -7.382E-02  -1.038E-01  -1.340E-01  -1.511E-01  -1.550E-01  -6.481E-02
IY= 13   6.254E-03  -1.080E-02  -5.092E-02  -8.302E-02  -1.195E-01  -1.428E-01  -1.548E-01  -7.429E-02
IY= 12   4.895E-02   5.354E-02   2.211E-02  -2.847E-02  -8.320E-02  -1.131E-01  -1.309E-01  -7.787E-02
IY= 11   3.496E+00   6.592E+00   1.037E+01   1.322E+01   1.499E+01   1.449E+01   1.081E+01   2.332E-07
IY= 10   2.153E+00   4.298E+00   6.685E+00   8.012E+00   8.233E+00   7.407E+00   5.031E+00   1.058E-07
IY=  9   1.760E+00   3.106E+00   4.612E+00   5.216E+00   4.903E+00   3.883E+00   1.515E+00   5.535E-08
IY=  8   1.511E+00   2.700E+00   3.802E+00   3.716E+00   2.719E+00   1.367E+00  -9.470E-01   2.450E-08
IY=  7   1.564E+00   2.763E+00   3.675E+00   2.720E+00   1.025E+00  -6.047E-01  -2.577E+00   2.771E-09
IY=  6   1.845E+00   3.596E+00   4.090E+00   1.823E+00  -1.919E-01  -1.866E+00  -3.396E+00   3.033E-15
IY=  5   6.775E-01   9.623E-01   6.673E-06   9.279E-02  -1.213E+00  -2.662E+00  -3.621E+00   1.413E-21
IY=  4   4.404E-01   6.127E-01   2.870E-07  -4.558E-01  -1.754E+00  -2.934E+00  -3.448E+00   3.554E-26
IY=  3   4.870E-01   8.378E-01  -5.625E-06  -1.407E+00  -2.271E+00  -3.027E+00  -3.347E+00   1.616E-26
IY=  2  -1.675E+00  -3.324E+00  -6.182E+00  -4.540E+00  -3.230E+00  -3.123E+00  -3.184E+00   4.847E-26
IY=  1  -2.448E+00  -3.612E+00  -4.613E+00  -2.836E+00  -2.009E+00  -2.672E+00  -2.953E+00   4.847E-26
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22  -7.386E-01  -7.269E-01  -7.038E-01  -6.670E-01  -6.109E-01  -5.080E-01  -3.787E-01  -2.502E-01  -2.005E-01
IY= 21  -6.321E-01  -5.553E-01  -3.889E-01  -1.013E-01   2.192E-01   4.569E-01   4.638E-01   3.582E-01   4.041E-01
IY= 20  -4.248E-01  -1.774E-01   1.335E-01   2.910E-01   2.714E-01   2.548E-01   2.220E-01   1.303E-01   2.259E-01
IY= 19  -2.766E-01   1.268E-01   1.765E-01   1.702E-01   1.589E-01   1.415E-01   1.190E-01   8.742E-02   2.263E-01
IY= 18  -2.118E-01   8.693E-02   1.053E-01   1.087E-01   1.132E-01   1.193E-01   1.202E-01   1.119E-01   2.928E-01
IY= 17  -1.937E-01   5.178E-02   7.970E-02   9.688E-02   1.114E-01   1.257E-01   1.328E-01   1.311E-01   3.197E-01
IY= 16  -1.857E-01   1.974E-02   6.152E-02   8.691E-02   1.075E-01   1.277E-01   1.413E-01   1.475E-01   3.413E-01
IY= 15  -1.895E-01  -1.111E-02   4.691E-02   7.602E-02   9.878E-02   1.216E-01   1.399E-01   1.552E-01   3.563E-01
IY= 14  -1.978E-01  -2.729E-02   4.114E-02   6.797E-02   9.012E-02   1.125E-01   1.321E-01   1.527E-01   3.608E-01
IY= 13  -2.046E-01  -5.619E-02   2.610E-02   5.110E-02   6.991E-02   8.888E-02   1.101E-01   1.398E-01   3.650E-01
IY= 12  -1.621E-01  -6.052E-02   2.705E-03   3.312E-02   4.096E-02   5.006E-02   6.569E-02   9.713E-02   3.654E-01
IY= 11   1.519E-08   2.116E-08   4.734E-08   5.345E-08   5.206E-08   2.317E-09  -2.239E-12   1.268E-09   3.677E-01
IY= 10   2.965E+00   2.919E+00   2.776E+00   2.429E+00   1.668E+00   5.318E-01  -1.496E+00  -4.233E+00   3.131E-01
IY=  9  -3.614E+00  -3.235E+00  -3.065E+00  -2.685E+00  -2.049E+00  -1.594E+00  -2.347E+00  -5.562E+00   2.791E-01
IY=  8  -1.775E+00  -1.724E+00  -1.770E+00  -1.893E+00  -1.741E+00  -1.624E+00  -2.701E+00  -5.591E+00   2.496E-01
IY=  7   4.503E-03  -1.770E-01  -4.820E-01  -1.124E+00  -1.255E+00  -1.322E+00  -2.734E+00  -4.974E+00   2.212E-01
IY=  6   1.276E+00   7.865E-01   1.856E-01  -1.162E+00  -1.170E+00  -1.103E+00  -2.530E+00  -3.994E+00   1.935E-01
IY=  5   3.330E-07   2.861E-07  -5.385E-07  -1.880E+00  -1.396E+00  -1.064E+00  -2.231E+00  -2.987E+00   1.689E-01
IY=  4   1.242E+00   9.827E-01  -1.825E-01  -2.663E+00  -1.809E+00  -1.151E+00  -1.820E+00  -1.922E+00   1.392E-01
IY=  3   1.131E+00   9.403E-01   4.181E-01  -5.545E+00  -2.886E+00  -1.430E+00  -1.348E+00  -1.071E+00   1.052E-01
IY=  2  -1.183E+00  -1.009E+00  -9.500E-01  -7.020E+00  -3.188E+00  -1.424E+00  -1.118E+00  -7.376E-01   8.919E-02
IY=  1   1.111E+00   5.053E-01   2.153E-01  -2.737E+00  -1.314E+00  -4.706E-01  -4.735E-01  -2.077E-01   4.447E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23  -2.776E+00  -2.700E+00  -2.547E+00  -2.306E+00  -1.998E+00  -1.548E+00  -1.015E+00  -4.470E-01  -5.003E-07
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IY= 22  -3.914E-01 -3.306E-01 -2.064E-01 -2.300E-02  1.741E-01  3.658E-01  4.762E-01  4.820E-01  5.673E-01
IY= 21  -6.578E-08 -4.687E-08 -1.332E-08  5.066E-08  9.851E-08  7.508E-08  5.091E-08  2.762E-08  2.602E-01
IY= 20  -1.260E-10 -1.467E-11 -7.294E-12  3.191E-11  7.380E-11  9.747E-11  1.211E-10 -3.888E-09  1.686E-01
IY= 19  -3.147E-11 -3.658E-12  5.072E-12  8.020E-12  1.280E-11  1.705E-11  2.078E-11 -6.100E-09  1.433E-01
IY= 18  -4.499E-12 -1.028E-12 -7.764E-13 -8.073E-13 -8.658E-13 -5.930E-13 -1.347E-12 -2.056E-09  1.940E-01
IY= 17  -2.663E-12 -1.188E-12 -2.197E-12 -2.144E-12 -2.740E-12 -2.944E-12 -4.675E-12 -2.127E-09  2.181E-01
IY= 16  -2.356E-12 -1.361E-12 -2.418E-12 -2.538E-12 -3.508E-12 -3.970E-12 -5.891E-12 -2.100E-09  2.493E-01
IY= 15  -1.289E-12 -7.988E-13 -1.196E-12 -1.388E-12 -2.079E-12 -2.324E-12 -3.199E-12 -1.145E-09  2.828E-01
IY= 14  -2.304E-12 -1.371E-12 -1.874E-12 -2.555E-12 -4.234E-12 -4.916E-12 -6.570E-12 -2.231E-09  2.987E-01
IY= 13  -1.610E-12 -8.220E-13 -9.370E-13 -1.973E-12 -3.616E-12 -4.279E-12 -5.502E-12 -2.098E-09  3.351E-01
IY= 12  -5.274E-13 -3.635E-13 -5.410E-13 -9.315E-13 -2.624E-12 -3.528E-12 -4.852E-12 -2.323E-09  3.676E-01
IY= 11   3.763E-08  4.575E-08  8.348E-08  7.896E-08  5.630E-08 -4.011E-09 -6.940E-08 -6.102E-08  4.041E-01
IY= 10   4.404E-05  4.368E-05  5.356E-05  3.551E-05  2.484E-05  1.000E-05  1.675E-06 -3.860E-08  4.147E-01
IY=  9   3.356E+01  3.218E+01  2.852E+01  2.249E+01  1.453E+01  6.933E+00  1.586E+00  6.192E-01  4.188E-01
IY=  8   4.868E+01  4.604E+01  3.979E+01  3.084E+01  1.973E+01  9.515E+00  2.506E+00  4.213E-01  4.209E-01
IY=  7   6.756E+01  6.288E+01  5.127E+01  3.789E+01  2.303E+01  1.059E+01  2.695E+00  6.554E-02  4.217E-01
IY=  6   1.046E+02  9.566E+01  6.735E+01  4.368E+01  2.433E+01  1.048E+01  2.354E+00 -1.106E-01  4.217E-01
IY=  5   4.213E+02  3.922E+02  2.896E+02  4.494E+01  2.312E+01  9.484E+00  1.715E+00 -1.845E-01  4.209E-01
IY=  4   3.980E+02  3.867E+02  3.561E+02  6.139E+01  2.327E+01  8.305E+00  1.080E+00 -1.765E-01  4.190E-01
IY=  3   3.549E+02  3.353E+02  2.611E+02  5.695E+01  2.087E+01  6.976E+00  7.305E-01 -1.440E-01  4.157E-01
IY=  2   1.723E+02  1.458E+02  8.893E+01  4.042E+01  1.657E+01  4.847E+00  2.036E-01 -1.601E-01  4.146E-01
IY=  1   5.415E+01  4.755E+01  3.227E+01  1.999E+01  7.957E+00  1.272E+00 -1.965E-01 -1.539E-01  4.080E-01
 IX=        1          2          3          4          5          6          7          8          9
FIELD VALUES OF KE
IY= 23   6.255E-01  6.375E-01  6.794E-01  7.849E-01  9.623E-01  1.186E+00  1.258E+00  1.124E+00  1.067E+00
IY= 22   4.469E-01  4.508E-01  4.606E-01  4.636E-01  4.378E-01  3.740E-01  2.926E-01  2.098E-01  2.217E-01
IY= 21   2.120E-03  1.116E-03  2.024E-04  1.079E-04  5.296E-04  1.031E-03  9.653E-04  5.398E-04  4.472E-02
IY= 20   1.008E-03  1.193E-05  2.341E-04  4.783E-04  4.341E-04  3.875E-04  3.071E-04  1.255E-04  2.884E-02
IY= 19   5.264E-04  1.243E-04  2.106E-04  2.253E-04  2.406E-04  2.490E-04  2.321E-04  1.326E-04  2.691E-02
IY= 18   3.777E-04  6.263E-05  1.249E-04  1.836E-04  2.431E-04  2.956E-04  3.124E-04  2.150E-04  2.732E-02
IY= 17   3.362E-04  2.634E-05  9.246E-05  1.664E-04  2.431E-04  3.148E-04  3.480E-04  2.636E-04  2.694E-02
IY= 16   3.305E-04  1.392E-05  7.624E-05  1.555E-04  2.409E-04  3.246E-04  3.731E-04  3.054E-04  2.608E-02
IY= 15   3.507E-04  2.010E-05  6.643E-05  1.415E-04  2.293E-04  3.183E-04  3.778E-04  3.253E-04  2.367E-02
IY= 14   3.734E-04  3.136E-05  5.165E-05  1.206E-04  2.030E-04  2.882E-04  3.518E-04  3.136E-04  2.139E-02
IY= 13   3.152E-04  4.159E-05  1.615E-05  7.082E-05  1.382E-04  2.160E-04  2.833E-04  2.603E-04  1.568E-02
IY= 12   6.523E-05  3.937E-05  2.028E-05  2.571E-06  4.226E-05  1.108E-04  1.633E-04  1.312E-04  8.549E-03
IY= 11   7.353E-02  1.383E-01  3.503E-01  6.384E-01  8.853E-01  9.590E-01  7.243E-01  1.171E-01  2.308E-03
IY= 10   2.741E-02  5.636E-02  1.493E-01  2.551E-01  3.068E-01  2.871E-01  2.040E-01  1.398E-01  2.163E-03
IY=  9   7.579E+02  7.067E+02  5.908E+02  4.349E+02  2.631E+02  1.303E+02  5.493E+01  1.664E-01  2.055E-03
IY=  8   1.076E+03  9.858E+02  7.923E+02  5.699E+02  3.399E+02  1.618E+02  6.567E+01  1.499E-01  1.959E-03
IY=  7   1.280E+03  1.143E+03  8.403E+02  6.093E+02  3.693E+02  1.674E+02  5.902E+01  1.104E-01  1.870E-03
IY=  6   4.046E+01  3.428E+01  1.792E+01  4.674E+02  3.540E+02  1.583E+02  4.602E+01  6.990E-02  1.793E-03
IY=  5   5.290E+02  4.627E+02  2.614E+02  8.140E+00  3.264E+02  1.435E+02  3.265E+01  3.694E-02  1.718E-03
IY=  4   6.381E+03  5.530E+03  3.829E+02  1.454E+01  3.896E+02  1.362E+02  2.449E+01  1.514E-02  1.639E-03
IY=  3   4.923E+03  4.572E+03  2.144E+02  1.274E+01  3.670E+02  1.187E+02  2.005E+01  6.149E-03  1.575E-03
IY=  2   3.381E+03  3.418E+03  2.517E+03  6.593E+02  2.991E+02  8.654E+01  1.435E+01  2.063E-03  1.529E-03
IY=  1   1.091E+01  8.584E+00  4.230E+00  1.774E+00  3.415E-01  4.250E-02  4.713E-02  7.659E-03  1.467E-03
 IX=        1          2          3          4          5          6          7          8          9
FIELD VALUES OF EP
IY= 23   2.465E-01  2.448E-01  2.529E-01  2.895E-01  3.626E-01  4.595E-01  4.697E-01  3.629E-01  2.979E-01
IY= 22   1.138E-01  1.146E-01  1.179E-01  1.202E-01  1.141E-01  9.556E-02  6.791E-02  4.009E-02  3.723E-02
IY= 21   8.796E-05  3.363E-05  2.596E-06  1.011E-06  1.099E-05  2.985E-05  2.704E-05  1.130E-05  3.477E-03
IY= 20   2.883E-05  3.714E-08  3.228E-06  9.430E-06  8.154E-06  6.876E-06  4.851E-06  1.268E-06  2.817E-03
IY= 19   1.089E-05  1.249E-06  2.756E-06  3.048E-06  3.363E-06  3.542E-06  3.188E-06  1.376E-06  3.654E-03
IY= 18   6.616E-06  4.468E-07  1.258E-06  2.243E-06  3.417E-06  4.582E-06  4.979E-06  2.841E-06  4.692E-03
IY= 17   5.556E-06  1.218E-07  8.014E-07  1.935E-06  3.417E-06  5.036E-06  5.852E-06  3.858E-06  4.939E-03
IY= 16   5.416E-06  4.679E-08  6.000E-07  1.747E-06  3.370E-06  5.272E-06  6.496E-06  4.811E-06  5.038E-03
IY= 15   5.920E-06  8.121E-08  4.880E-07  1.517E-06  3.131E-06  5.120E-06  6.620E-06  5.289E-06  4.664E-03
IY= 14   6.504E-06  1.583E-07  3.346E-07  1.194E-06  2.607E-06  4.411E-06  5.949E-06  5.005E-06  4.171E-03
IY= 13   5.045E-06  2.418E-07  5.850E-08  5.372E-07  1.465E-06  2.862E-06  4.299E-06  3.786E-06  3.021E-03
IY= 12   5.647E-07  2.648E-07  9.790E-08  1.000E-08  2.945E-07  1.251E-06  2.238E-06  1.612E-06  1.476E-03
IY= 11   2.405E-02  6.203E-02  2.501E-01  6.152E-01  1.005E+00  1.133E+00  7.435E-01  5.055E-02  1.599E-04
IY= 10   4.091E-03  1.206E-02  5.202E-02  1.161E-01  1.532E-01  1.387E-01  8.304E-02  5.949E-02  1.450E-04
IY=  9   1.458E+04  1.308E+04  9.854E+03  6.154E+03  2.868E+03  1.043E+03  3.332E+02  9.324E-02  1.343E-04
IY=  8   2.540E+04  2.214E+04  1.549E+04  9.125E+03  4.016E+03  1.331E+03  3.842E+02  7.971E-02  1.250E-04
IY=  7   3.960E+04  3.321E+04  2.004E+04  1.131E+04  4.795E+03  1.411E+03  3.178E+02  5.039E-02  1.166E-04
IY=  6   6.481E+02  5.054E+02  1.910E+02  9.290E+03  4.775E+03  1.325E+03  2.184E+02  2.538E-02  1.094E-04
IY=  5   2.518E+04  2.060E+04  8.467E+03  4.498E+01  4.394E+03  1.169E+03  1.209E+02  9.752E-03  1.027E-04
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IY=  4   2.919E+05   2.572E+05   1.451E+04   1.074E+02   6.207E+03   1.169E+03   6.338E+01   2.560E-03   9.561E-05
IY=  3   2.817E+05   2.866E+05   6.083E+03   8.808E+01   5.644E+03   9.523E+02   3.990E+01   6.623E-04   9.008E-05
IY=  2   2.626E+05   2.695E+05   1.739E+05   1.718E+04   3.841E+03   5.434E+02   1.828E+01   1.287E-04   8.620E-05
IY=  1   4.841E+01   3.380E+01   1.170E+01   3.175E+00   2.682E-01   1.178E-02   1.375E-02   9.108E-04   8.103E-05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF HI
IY= 23   3.170E+05   3.166E+05   3.159E+05   3.147E+05   3.134E+05   3.115E+05   3.094E+05   3.072E+05   3.067E+05
IY= 22   3.105E+05   3.102E+05   3.096E+05   3.082E+05   3.060E+05   3.031E+05   3.009E+05   2.993E+05   2.994E+05
IY= 21   3.064E+05   3.056E+05   3.033E+05   2.986E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 20   3.013E+05   2.996E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 19   2.975E+05   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 18   2.968E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 17   2.963E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 16   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 15   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 14   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 13   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 12   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05   2.962E+05
IY= 11   3.045E+05   3.056E+05   3.079E+05   3.100E+05   3.115E+05   3.118E+05   3.118E+05   3.119E+05   2.962E+05
IY= 10   3.235E+05   3.242E+05   3.252E+05   3.254E+05   3.246E+05   3.233E+05   3.206E+05   3.156E+05   2.962E+05
IY=  9   3.463E+05   3.455E+05   3.431E+05   3.389E+05   3.329E+05   3.272E+05   3.234E+05   3.144E+05   2.962E+05
IY=  8   3.790E+05   3.749E+05   3.656E+05   3.537E+05   3.404E+05   3.293E+05   3.228E+05   3.114E+05   2.962E+05
IY=  7   4.279E+05   4.178E+05   3.948E+05   3.709E+05   3.478E+05   3.300E+05   3.198E+05   3.078E+05   2.962E+05
IY=  6   5.203E+05   4.963E+05   4.328E+05   3.849E+05   3.529E+05   3.292E+05   3.155E+05   3.046E+05   2.962E+05
IY=  5   8.448E+05   8.167E+05   6.946E+05   4.002E+05   3.555E+05   3.271E+05   3.102E+05   3.013E+05   2.962E+05
IY=  4   8.180E+05   8.100E+05   7.968E+05   4.340E+05   3.602E+05   3.248E+05   3.052E+05   2.985E+05   2.962E+05
IY=  3   7.775E+05   7.569E+05   6.795E+05   4.293E+05   3.570E+05   3.214E+05   3.028E+05   2.973E+05   2.962E+05
IY=  2   6.317E+05   5.828E+05   4.820E+05   3.986E+05   3.492E+05   3.155E+05   3.003E+05   2.964E+05   2.962E+05
IY=  1   4.352E+05   4.282E+05   3.971E+05   3.662E+05   3.302E+05   3.029E+05   2.972E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.428E-01   1.494E-01   1.643E-01   1.915E-01   2.299E-01   2.756E-01   3.032E-01   3.135E-01   3.440E-01
IY= 22   1.579E-01   1.596E-01   1.620E-01   1.609E-01   1.512E-01   1.317E-01   1.135E-01   9.881E-02   1.189E-01
IY= 21   4.597E-03   3.336E-03   1.420E-03   1.037E-03   2.298E-03   3.206E-03   3.102E-03   2.320E-03   5.177E-02
IY= 20   3.169E-03   3.448E-04   1.527E-03   2.184E-03   2.080E-03   1.965E-03   1.750E-03   1.119E-03   2.658E-02
IY= 19   2.291E-03   1.113E-03   1.449E-03   1.499E-03   1.549E-03   1.576E-03   1.521E-03   1.150E-03   1.784E-02
IY= 18   1.940E-03   7.902E-04   1.116E-03   1.353E-03   1.557E-03   1.717E-03   1.765E-03   1.464E-03   1.432E-02
IY= 17   1.831E-03   5.124E-04   9.600E-04   1.288E-03   1.557E-03   1.772E-03   1.863E-03   1.621E-03   1.322E-02
IY= 16   1.815E-03   3.725E-04   8.718E-04   1.245E-03   1.550E-03   1.799E-03   1.929E-03   1.745E-03   1.215E-02
IY= 15   1.870E-03   4.476E-04   8.138E-04   1.188E-03   1.512E-03   1.781E-03   1.941E-03   1.801E-03   1.082E-02
IY= 14   1.929E-03   5.591E-04   7.176E-04   1.097E-03   1.422E-03   1.695E-03   1.873E-03   1.768E-03   9.871E-03
IY= 13   1.773E-03   6.439E-04   4.012E-04   8.402E-04   1.174E-03   1.467E-03   1.681E-03   1.611E-03   7.329E-03
IY= 12   6.781E-04   5.269E-04   3.781E-04   5.951E-05   5.458E-04   8.839E-04   1.073E-03   9.619E-04   4.458E-03
IY= 11   2.024E-02   2.775E-02   4.417E-02   5.962E-02   7.021E-02   7.308E-02   6.351E-02   2.440E-02   2.999E-03
IY= 10   1.653E-02   2.370E-02   3.858E-02   5.042E-02   5.530E-02   5.350E-02   4.509E-02   2.959E-02   2.903E-03
IY=  9   3.545E+00   3.436E+00   3.188E+00   2.766E+00   2.172E+00   1.465E+00   8.150E-01   2.673E-02   2.830E-03
IY=  8   4.103E+00   3.951E+00   3.647E+00   3.203E+00   2.588E+00   1.772E+00   1.010E+00   2.537E-02   2.763E-03
IY=  7   3.725E+00   3.538E+00   3.171E+00   2.954E+00   2.560E+00   1.787E+00   9.866E-01   2.178E-02   2.700E-03
IY=  6   2.274E-01   2.093E-01   1.513E-01   2.117E+00   2.362E+00   1.701E+00   8.728E-01   1.733E-02   2.643E-03
IY=  5   1.000E+00   9.355E-01   7.264E-01   1.326E-01   2.182E+00   1.587E+00   7.941E-01   1.260E-02   2.588E-03
IY=  4   1.255E+01   1.070E+01   9.093E-01   1.772E-01   2.201E+00   1.429E+00   8.513E-01   8.064E-03   2.527E-03
IY=  3   7.743E+00   6.564E+00   6.805E-01   1.659E-01   2.148E+00   1.331E+00   9.065E-01   5.139E-03   2.477E-03
IY=  2   3.918E+00   3.902E+00   3.280E+00   2.278E+00   2.096E+00   1.240E+00   1.015E+00   2.976E-03   2.441E-03
IY=  1   2.211E-01   1.962E-01   1.377E-01   8.918E-02   3.913E-02   1.380E-02   1.454E-02   5.797E-03   2.392E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.157E+02   3.154E+02   3.146E+02   3.135E+02   3.121E+02   3.102E+02   3.082E+02   3.060E+02   3.055E+02
IY= 22   3.093E+02   3.090E+02   3.084E+02   3.070E+02   3.047E+02   3.019E+02   2.997E+02   2.981E+02   2.982E+02
IY= 21   3.052E+02   3.044E+02   3.021E+02   2.974E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 20   3.001E+02   2.984E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 19   2.963E+02   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 18   2.956E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 17   2.952E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 16   2.951E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 15   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 14   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 13   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
IY= 12   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02   2.950E+02
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IY= 11   3.033E+02   3.044E+02   3.067E+02   3.088E+02   3.102E+02   3.106E+02   3.106E+02   3.106E+02   2.950E+02
IY= 10   3.222E+02   3.229E+02   3.239E+02   3.241E+02   3.233E+02   3.220E+02   3.193E+02   3.144E+02   2.950E+02
IY=  9   3.449E+02   3.441E+02   3.417E+02   3.376E+02   3.316E+02   3.259E+02   3.222E+02   3.131E+02   2.950E+02
IY=  8   3.775E+02   3.734E+02   3.642E+02   3.523E+02   3.390E+02   3.280E+02   3.215E+02   3.101E+02   2.950E+02
IY=  7   4.262E+02   4.161E+02   3.932E+02   3.694E+02   3.465E+02   3.287E+02   3.185E+02   3.066E+02   2.950E+02
IY=  6   5.182E+02   4.943E+02   4.311E+02   3.833E+02   3.515E+02   3.279E+02   3.142E+02   3.034E+02   2.950E+02
IY=  5   8.415E+02   8.134E+02   6.918E+02   3.986E+02   3.541E+02   3.258E+02   3.089E+02   3.001E+02   2.950E+02
IY=  4   8.147E+02   8.067E+02   7.936E+02   4.323E+02   3.588E+02   3.235E+02   3.040E+02   2.973E+02   2.950E+02
IY=  3   7.744E+02   7.539E+02   6.768E+02   4.276E+02   3.556E+02   3.201E+02   3.016E+02   2.961E+02   2.950E+02
IY=  2   6.292E+02   5.805E+02   4.801E+02   3.971E+02   3.478E+02   3.142E+02   2.991E+02   2.952E+02   2.950E+02
IY=  1   4.334E+02   4.265E+02   3.955E+02   3.648E+02   3.289E+02   3.017E+02   2.961E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.122E+00   1.123E+00   1.126E+00   1.130E+00   1.135E+00   1.142E+00   1.150E+00   1.158E+00   1.160E+00
IY= 22   1.145E+00   1.146E+00   1.149E+00   1.154E+00   1.163E+00   1.174E+00   1.182E+00   1.189E+00   1.188E+00
IY= 21   1.161E+00   1.164E+00   1.173E+00   1.191E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 20   1.180E+00   1.187E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 19   1.196E+00   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 18   1.199E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 17   1.200E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 16   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 15   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 14   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 13   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 12   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00   1.201E+00
IY= 11   1.170E+00   1.166E+00   1.157E+00   1.148E+00   1.142E+00   1.140E+00   1.140E+00   1.141E+00   1.201E+00
IY= 10   1.101E+00   1.099E+00   1.095E+00   1.094E+00   1.096E+00   1.100E+00   1.109E+00   1.127E+00   1.201E+00
IY=  9   1.028E+00   1.031E+00   1.038E+00   1.050E+00   1.068E+00   1.087E+00   1.099E+00   1.131E+00   1.201E+00
IY=  8   9.393E-01   9.495E-01   9.733E-01   1.006E+00   1.045E+00   1.080E+00   1.101E+00   1.142E+00   1.201E+00
IY=  7   8.318E-01   8.520E-01   9.013E-01   9.590E-01   1.022E+00   1.077E+00   1.112E+00   1.155E+00   1.201E+00
IY=  6   6.843E-01   7.172E-01   8.221E-01   9.239E-01   1.007E+00   1.080E+00   1.127E+00   1.167E+00   1.201E+00
IY=  5   4.198E-01   4.342E-01   5.105E-01   8.884E-01   1.000E+00   1.087E+00   1.146E+00   1.180E+00   1.201E+00
IY=  4   4.338E-01   4.381E-01   4.453E-01   8.192E-01   9.870E-01   1.095E+00   1.165E+00   1.191E+00   1.201E+00
IY=  3   4.570E-01   4.693E-01   5.225E-01   8.282E-01   9.959E-01   1.106E+00   1.174E+00   1.196E+00   1.201E+00
IY=  2   5.625E-01   6.097E-01   7.372E-01   8.916E-01   1.018E+00   1.127E+00   1.184E+00   1.200E+00   1.201E+00
IY=  1   8.167E-01   8.301E-01   8.952E-01   9.708E-01   1.077E+00   1.174E+00   1.196E+00   1.200E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

****************************************************************
TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    37 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ= 37, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23  -3.618E-01  -4.690E-01  -5.820E-01  -7.601E-01  -9.631E-01  -1.117E+00  -1.182E+00  -1.159E+00  -1.368E+00
IY= 22  -1.973E+00  -2.059E+00  -2.090E+00  -2.123E+00  -2.140E+00  -2.098E+00  -1.982E+00  -1.727E+00  -1.653E+00
IY= 21  -3.075E+00  -3.145E+00  -3.153E+00  -3.159E+00  -3.173E+00  -3.101E+00  -2.983E+00  -2.874E+00  -1.067E+00
IY= 20  -4.842E+00  -4.933E+00  -4.938E+00  -4.968E+00  -4.960E+00  -4.759E+00  -4.453E+00  -4.084E+00  -9.572E-01
IY= 19  -7.501E+00  -7.616E+00  -7.703E+00  -7.834E+00  -7.829E+00  -7.455E+00  -6.829E+00  -6.032E+00  -8.912E-01
IY= 18  -1.097E+01  -1.108E+01  -1.115E+01  -1.122E+01  -1.108E+01  -1.046E+01  -9.533E+00  -8.172E+00  -8.617E-01
IY= 17  -1.270E+01  -1.282E+01  -1.293E+01  -1.304E+01  -1.283E+01  -1.208E+01  -1.102E+01  -9.428E+00  -8.421E-01
IY= 16  -1.508E+01  -1.521E+01  -1.534E+01  -1.540E+01  -1.503E+01  -1.399E+01  -1.274E+01  -1.081E+01  -8.223E-01
IY= 15  -1.802E+01  -1.812E+01  -1.818E+01  -1.806E+01  -1.737E+01  -1.594E+01  -1.440E+01  -1.201E+01  -8.098E-01
IY= 14  -1.920E+01  -1.933E+01  -1.954E+01  -1.976E+01  -1.948E+01  -1.799E+01  -1.626E+01  -1.347E+01  -7.893E-01
IY= 13  -1.957E+01  -1.983E+01  -2.042E+01  -2.118E+01  -2.178E+01  -2.129E+01  -1.928E+01  -1.561E+01  -7.688E-01
IY= 12  -2.716E+01  -2.603E+01  -2.590E+01  -2.626E+01  -2.693E+01  -2.502E+01  -2.256E+01  -1.778E+01  -7.506E-01
IY= 11  -2.110E+01  -1.234E+01  -1.559E+01  -2.015E+01  -2.758E+01  -2.868E+01  -2.579E+01  -1.953E+01  -7.376E-01
IY= 10  -2.790E+00   2.046E+01   1.187E+01  -2.910E-01  -2.153E+01  -2.675E+01  -2.646E+01  -2.055E+01  -7.292E-01
IY=  9   9.468E+01   1.145E+02   8.751E+01   1.207E+01  -2.465E+01  -2.539E+01  -2.622E+01  -2.161E+01  -7.220E-01
IY=  8   1.044E+03   9.951E+02   7.409E+02  -5.793E+01  -5.543E+01  -2.904E+01  -2.826E+01  -2.265E+01  -7.155E-01
IY=  7   1.130E+03   1.070E+03   7.647E+02  -2.313E+02  -1.022E+02  -4.087E+01  -3.302E+01  -2.470E+01  -7.097E-01
IY=  6  -4.583E+03  -4.353E+03  -4.061E+03  -5.766E+02  -1.733E+02  -6.302E+01  -3.996E+01  -2.781E+01  -7.051E-01
IY=  5  -3.997E+03  -3.493E+03  -2.280E+03  -6.120E+02  -2.013E+02  -7.487E+01  -4.641E+01  -3.137E+01  -7.003E-01
IY=  4  -1.651E+03  -1.451E+03  -8.113E+02  -3.128E+02  -1.384E+02  -6.936E+01  -4.958E+01  -3.420E+01  -6.959E-01
IY=  3  -6.001E+02  -5.272E+02  -3.137E+02  -1.894E+02  -1.009E+02  -6.154E+01  -4.991E+01  -3.515E+01  -6.943E-01
IY=  2  -1.701E+02  -1.775E+02  -1.446E+02  -1.035E+02  -7.168E+01  -5.572E+01  -5.032E+01  -3.657E+01  -6.910E-01
IY=  1  -8.131E+01  -8.153E+01  -7.978E+01  -6.648E+01  -5.785E+01  -5.280E+01  -5.016E+01  -3.712E+01  -6.911E-01
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 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
1Y= 23  -1.025E-01  -1.957E-01  -3.053E-01  -3.673E-01  -3.801E-01  -3.051E-01  -1.519E-01   8.181E-02
1Y= 22  -1.069E-01  -2.112E-01  -3.562E-01  -4.754E-01  -5.789E-01  -5.940E-01  -5.225E-01  -2.399E-01
1Y= 21  -1.154E-01  -2.224E-01  -3.707E-01  -4.923E-01  -5.769E-01  -5.082E-01  -3.209E-01  -2.813E-09
1Y= 20  -1.640E-01  -3.146E-01  -5.226E-01  -6.897E-01  -8.049E-01  -7.661E-01  -5.692E-01  -9.864E-17
1Y= 19  -1.725E-01  -3.292E-01  -5.589E-01  -7.377E-01  -8.783E-01  -9.137E-01  -7.737E-01   1.513E-17
1Y= 18  -1.858E-01  -3.518E-01  -5.926E-01  -7.807E-01  -9.353E-01  -1.012E+00  -9.375E-01   1.013E-17
1Y= 17  -1.946E-01  -3.629E-01  -6.072E-01  -8.025E-01  -9.918E-01  -1.110E+00  -1.044E+00   1.344E-17
1Y= 16  -2.080E-01  -3.771E-01  -6.357E-01  -8.655E-01  -1.129E+00  -1.288E+00  -1.189E+00   7.059E-14
1Y= 15  -2.281E-01  -4.160E-01  -7.094E-01  -9.816E-01  -1.293E+00  -1.462E+00  -1.326E+00   6.210E-13
1Y= 14  -2.723E-01  -4.955E-01  -8.638E-01  -1.253E+00  -1.688E+00  -1.807E+00  -1.525E+00   2.950E-12
1Y= 13  -1.472E-01  -2.240E-01  -5.115E-01  -1.127E+00  -1.870E+00  -2.145E+00  -1.762E+00   2.159E-12
1Y= 12   2.219E-01   4.606E-01   2.731E-01  -8.472E-01  -2.028E+00  -2.428E+00  -2.031E+00   3.300E-12
1Y= 11   1.576E+00   2.894E+00   3.913E+00   2.735E+00  -1.177E-01  -2.317E+00  -2.302E+00   6.237E-12
1Y= 10   3.842E+00   7.021E+00   1.040E+01   8.467E+00   3.900E+00   2.154E-01  -1.955E+00   7.917E-12
1Y=  9   6.439E+00   1.221E+01   1.920E+01   1.453E+01   7.518E+00   2.439E+00  -8.398E-01   1.576E-09
1Y=  8   9.406E+00   1.859E+01   3.261E+01   2.081E+01   9.985E+00   3.523E+00  -2.416E-01   5.023E-09
1Y=  7   1.138E+01   2.241E+01   3.929E+01   2.254E+01   9.499E+00   2.868E+00  -5.817E-01   4.317E-09
1Y=  6  -1.642E+01  -2.166E+01  -7.255E-05   2.688E+00   2.359E+00   2.197E-01  -1.622E+00   3.266E-10
1Y=  5  -7.296E+00  -1.759E+01  -3.282E+01  -1.117E+01  -3.952E+00  -2.659E+00  -2.797E+00   1.769E-15
1Y=  4  -3.570E+00  -7.384E+00  -9.477E+00  -8.730E+00  -5.702E+00  -4.190E+00  -3.424E+00   1.895E-15
1Y=  3  -2.006E+00  -3.283E+00  -3.989E+00  -6.880E+00  -5.504E+00  -4.339E+00  -3.529E+00   9.388E-16
1Y=  2  -2.459E+00  -4.144E+00  -6.320E+00  -6.152E+00  -5.062E+00  -4.246E+00  -3.476E+00   2.694E-15
1Y=  1  -2.912E+00  -4.633E+00  -6.001E+00  -4.820E+00  -4.183E+00  -3.821E+00  -3.349E+00   1.236E-14
 1X=      1           2           3           4           5           6           7           8
FIELD VALUES OF V1
1Y= 22  -4.365E-01  -3.874E-01  -2.959E-01  -1.946E-01  -1.609E-01  -2.227E-01  -3.227E-01  -3.561E-01  -4.054E-01
1Y= 21  -1.238E+00  -1.199E+00  -1.116E+00  -9.768E-01  -8.117E-01  -6.274E-01  -4.204E-01  -1.554E-01   5.244E-01
IY= 20  -2.005E+00  -1.944E+00  -1.794E+00  -1.465E+00  -1.095E+00  -6.143E-01  -2.592E-01  -3.007E-01   5.466E-01
1Y= 19  -2.797E+00  -2.704E+00  -2.465E+00  -2.004E+00  -1.502E+00  -8.189E-01  -3.244E-01  -3.273E-01   5.258E-01
1Y= 18  -3.639E+00  -3.528E+00  -3.241E+00  -2.750E+00  -2.204E+00  -1.471E+00  -9.064E-01  -6.461E-01   5.063E-01
1Y= 17  -3.987E+00  -3.871E+00  -3.570E+00  -3.069E+00  -2.488E+00  -1.726E+00  -1.169E+00  -8.151E-01   4.944E-01
1Y= 16  -4.420E+00  -4.297E+00  -3.979E+00  -3.444E+00  -2.809E+00  -2.020E+00  -1.454E+00  -9.704E-01   4.782E-01
1Y= 15  -4.909E+00  -4.775E+00  -4.433E+00  -3.849E+00  -3.156E+00  -2.339E+00  -1.719E+00  -1.074E+00   4.576E-01
1Y= 14  -5.062E+00  -4.909E+00  -4.544E+00  -3.972E+00  -3.319E+00  -2.520E+00  -1.875E+00  -1.136E+00   4.430E-01
1Y= 13  -5.115E+00  -4.915E+00  -4.512E+00  -3.941E+00  -3.439E+00  -2.785E+00  -2.076E+00  -1.181E+00   4.112E-01
IY= 12  -5.011E+00  -4.585E+00  -4.349E+00  -4.574E+00  -3.753E+00  -2.931E+00  -2.136E+00  -1.132E+00   3.736E-01
1Y= 11   4.978E+00   5.371E+00   4.497E+00   1.166E+00  -2.153E+00  -2.929E+00  -2.043E+00  -9.721E-01   3.313E-01
1Y= 10   1.683E+01   1.680E+01   1.463E+01   8.526E+00   2.102E+00  -1.020E+00  -1.548E+00  -7.611E-01   2.941E-01
1Y=  9   2.775E+01   2.699E+01   2.332E+01   1.320E+01   4.092E+00  -2.063E-01  -1.352E+00  -7.708E-01   2.665E-01
1Y=  8   3.628E+01   3.484E+01   2.986E+01   1.429E+01   3.951E+00  -5.038E-01  -1.859E+00  -9.633E-01   2.406E-01
1Y=  7   1.620E+01   1.525E+01   1.248E+01   5.320E+00   6.892E-01  -1.773E+00  -2.633E+00  -1.439E+00   2.146E-01
1Y=  6   1.767E-06   1.927E-06   2.933E-06  -1.010E+01  -4.843E+00  -3.526E+00  -3.350E+00  -1.824E+00   1.884E-01
1Y=  5   5.908E+01   6.347E+01   6.538E+01  -6.218E+00  -4.359E+00  -3.563E+00  -3.467E+00  -1.858E+00   1.648E-01
1Y=  4   3.645E+01   3.439E+01   2.755E+01   8.014E+00  -1.858E-01  -2.123E+00  -2.798E+00  -1.487E+00   1.361E-01
1Y=  3   2.092E+01   1.945E+01   1.445E+01   1.924E+00   3.728E-01  -1.058E+00  -1.828E+00  -9.060E-01   1.031E-01
1Y=  2   1.227E+01   1.104E+01   7.155E+00   4.903E-01   1.616E-01  -7.986E-01  -1.418E+00  -6.540E-01   8.749E-02
1Y=  1   4.096E+00   3.923E+00   2.805E+00  -1.142E-01   3.413E-02  -3.929E-01  -4.558E-01  -2.074E-01   4.374E-02
 1X=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
1Y= 23  -2.769E+00  -2.694E+00  -2.574E+00  -2.431E+00  -2.296E+00  -2.106E+00  -1.721E+00  -9.520E-01  -6.509E-07
1Y= 22  -2.500E-01  -1.760E-01  -4.556E-02   1.223E-01   2.483E-01   3.076E-01   3.178E-01   3.061E-01   4.281E-01
1Y= 21  -8.598E-02  -6.097E-02  -9.768E-03   1.073E-02  -1.090E-01  -3.703E-01  -5.982E-01  -4.478E-01   2.443E-01
1Y= 20   1.898E-01   1.856E-01   1.761E-01   5.137E-02  -1.902E-01  -5.370E-01  -7.983E-01  -6.253E-01   1.653E-01
1Y= 19   3.793E-01   3.467E-01   2.764E-01   3.185E-02  -3.179E-01  -7.660E-01  -1.110E+00  -8.865E-01   1.575E-01
1Y= 18   3.756E-01   3.309E-01   2.375E-01  -3.318E-02  -3.905E-01  -8.137E-01  -1.134E+00  -9.156E-01   1.963E-01
1Y= 17   3.829E-01   3.231E-01   2.068E-01  -6.968E-02  -4.192E-01  -8.352E-01  -1.138E+00  -8.704E-01   2.076E-01
1Y= 16   4.819E-01   3.977E-01   2.665E-01  -1.237E-02  -3.716E-01  -8.247E-01  -1.123E+00  -8.029E-01   2.214E-01
1Y= 15   7.930E-01   7.095E-01   5.705E-01   2.316E-01  -2.508E-01  -8.015E-01  -1.137E+00  -8.096E-01   2.360E-01
1Y= 14   1.151E+00   1.039E+00   8.850E-01   6.078E-01   8.572E-02  -6.926E-01  -1.116E+00  -7.738E-01   2.427E-01
1Y= 13   6.512E-01   6.001E-01   4.993E-01   1.931E-01   1.426E-01  -3.503E-01  -9.533E-01  -6.727E-01   2.578E-01
1Y= 12   7.491E+00   7.330E+00   6.743E+00   4.714E+00   1.941E+00   1.648E-02  -6.777E-01  -5.934E-01   2.694E-01
1Y= 11   1.983E+01   1.942E+01   1.807E+01   1.489E+01   9.220E+00   3.594E+00   1.373E-01  -5.943E-01   2.775E-01
1Y= 10   3.287E+01   3.239E+01   3.040E+01   2.783E+01   1.949E+01   1.024E+01   3.437E+00  -4.877E-01   2.822E-01
1Y=  9   3.573E+01   3.529E+01   3.313E+01   3.664E+01   2.795E+01   1.601E+01   6.900E+00   5.096E-01   2.846E-01
1Y=  8   6.584E-07   6.231E-07   9.915E-07   3.822E+01   3.388E+01   2.015E+01   9.389E+00   1.560E+00   2.862E-01
1Y=  7   2.671E-07   3.575E-07   9.141E-07   3.954E+01   3.725E+01   2.192E+01   1.028E+01   1.753E+00   2.871E-01
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IY=  6   1.657E+02   1.528E+02   1.136E+02   4.360E+01   3.465E+01   1.998E+01   9.345E+00   1.186E+00   2.873E-01
IY=  5   4.086E+02   3.723E+02   2.450E+02   4.363E+01   2.765E+01   1.564E+01   6.979E+00   6.653E-01   2.870E-01
IY=  4   3.676E+02   3.579E+02   3.226E+02   5.026E+01   2.192E+01   1.106E+01   4.131E+00   4.110E-01   2.858E-01
IY=  3   2.896E+02   2.702E+02   2.047E+02   5.399E+01   1.939E+01   8.652E+00   2.955E+00   3.014E-01   2.835E-01
IY=  2   1.705E+02   1.480E+02   1.002E+02   4.614E+01   1.694E+01   6.123E+00   1.498E+00   2.295E-01   2.827E-01
IY=  1   6.723E+01   5.399E+01   3.531E+01   1.884E+01   7.901E+00   2.803E+00   7.668E-01   1.757E-01   2.765E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   7.460E-01   7.447E-01   7.456E-01   7.895E-01   9.431E-01   1.341E+00   1.908E+00   2.259E+00   2.326E+00
IY= 22   4.752E-01   4.538E-01   4.216E-01   3.833E-01   3.714E-01   3.990E-01   4.328E-01   4.403E-01   5.143E-01
IY= 21   4.100E-01   3.853E-01   3.442E-01   2.699E-01   1.973E-01   1.397E-01   8.792E-02   2.088E-03   2.802E-03
IY= 20   4.141E-01   3.781E-01   3.155E-01   2.219E-01   1.894E-01   1.839E-01   1.299E-01   3.787E-03   2.571E-03
IY= 19   4.339E-01   3.870E-01   3.269E-01   3.194E-01   4.159E-01   5.161E-01   3.582E-01   7.358E-03   2.396E-03
IY= 18   4.491E-01   3.980E-01   3.421E-01   3.833E-01   5.718E-01   8.099E-01   6.337E-01   9.597E-03   2.379E-03
IY= 17   4.768E-01   4.244E-01   3.917E-01   5.526E-01   9.036E-01   1.198E+00   8.239E-01   1.075E-02   2.311E-03
IY= 16   5.259E-01   4.911E-01   5.267E-01   9.153E-01   1.437E+00   1.599E+00   9.167E-01   1.158E-02   2.224E-03
IY= 15   5.387E-01   5.003E-01   5.690E-01   1.135E+00   1.776E+00   1.822E+00   9.521E-01   1.274E-02   2.154E-03
IY= 14   5.785E-01   5.377E-01   6.934E-01   1.377E+00   2.179E+00   2.058E+00   9.736E-01   1.314E-02   2.025E-03
IY= 13   3.243E+00   3.784E+00   4.452E+00   4.716E+00   2.995E+00   2.035E+00   1.029E+00   1.221E-02   1.868E-03
IY= 12   7.192E+01   7.209E+01   6.464E+01   4.045E+01   1.503E+01   3.962E+00   1.016E+00   1.014E-02   1.687E-03
IY= 11   2.216E+02   2.129E+02   1.982E+02   1.657E+02   9.697E+01   2.838E+01   3.174E+00   7.885E-03   1.517E-03
IY= 10   3.292E+02   3.170E+02   3.013E+02   2.997E+02   2.126E+02   1.034E+02   2.904E+01   6.057E-03   1.387E-03
IY=  9   2.913E+02   2.825E+02   2.747E+02   3.590E+02   2.998E+02   1.666E+02   6.492E+01   7.285E-03   1.286E-03
IY=  8   3.448E+00   3.636E+00   4.767E+00   2.751E+02   3.168E+02   2.023E+02   8.876E+01   2.462E-02   1.194E-03
IY=  7   8.141E-01   1.496E+00   4.231E+00   2.225E+02   3.091E+02   2.114E+02   9.673E+01   3.515E-02   1.108E-03
IY=  6   9.601E+01   8.297E+01   4.826E+01   7.929E+00   3.007E+02   1.977E+02   8.862E+01   2.987E-02   1.033E-03
IY=  5   1.870E+03   1.706E+03   1.084E+03   4.005E+02   3.185E+02   1.662E+02   6.613E+01   2.092E-02   9.617E-04
IY=  4   5.840E+03   5.010E+03   1.267E+03   6.370E+02   3.292E+02   1.299E+02   3.840E+01   1.104E-02   8.878E-04
IY=  3   6.568E+03   6.108E+03   2.243E+03   7.421E+02   3.204E+02   1.094E+02   2.560E+01   5.221E-03   8.340E-04
IY=  2   5.448E+03   5.169E+03   3.669E+03   1.057E+03   3.045E+02   8.422E+01   8.734E+00   1.982E-03   7.903E-04
IY=  1   1.630E+01   1.087E+01   5.027E+00   1.657E+00   4.023E-01   1.287E-01   7.611E-02   9.570E-03   7.410E-04
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   3.798E-01   3.659E-01   3.491E-01   3.678E-01   4.557E-01   6.994E-01   1.082E+00   1.256E+00   1.120E+00
IY= 22   1.285E-01   1.187E-01   1.060E-01   9.562E-02   9.932E-02   1.182E-01   1.400E-01   1.463E-01   1.635E-01
IY= 21   1.004E-01   9.230E-02   8.168E-02   6.575E-02   5.533E-02   4.835E-02   3.782E-02   1.311E-04   2.138E-04
IY= 20   1.072E-01   9.800E-02   8.805E-02   8.035E-02   9.125E-02   1.148E-01   9.220E-02   3.200E-04   1.879E-04
IY= 19   1.264E-01   1.178E-01   1.274E-01   1.821E-01   3.000E-01   4.351E-01   3.240E-01   8.670E-04   1.691E-04
IY= 18   1.364E-01   1.280E-01   1.488E-01   2.525E-01   4.828E-01   7.857E-01   6.619E-01   1.291E-03   1.673E-04
IY= 17   1.523E-01   1.471E-01   2.035E-01   4.447E-01   8.679E-01   1.262E+00   9.008E-01   1.530E-03   1.601E-04
IY= 16   1.750E-01   1.859E-01   3.669E-01   9.692E-01   1.613E+00   1.826E+00   1.051E+00   1.712E-03   1.512E-04
IY= 15   1.865E-01   2.055E-01   4.313E-01   1.275E+00   2.169E+00   2.189E+00   1.125E+00   1.975E-03   1.441E-04
IY= 14   2.240E-01   2.648E-01   5.756E-01   1.468E+00   2.757E+00   2.710E+00   1.216E+00   2.069E-03   1.314E-04
IY= 13   9.301E+00   1.203E+01   1.457E+01   1.364E+01   4.862E+00   2.898E+00   1.525E+00   1.854E-03   1.163E-04
IY= 12   7.727E+02   7.609E+02   6.384E+02   3.061E+02   3.769E+01   9.011E+00   1.724E+00   1.403E-03   9.987E-05
IY= 11   2.961E+03   2.763E+03   2.423E+03   1.833E+03   8.213E+02   1.502E+02   7.559E+00   9.616E-04   8.516E-05
IY= 10   5.103E+03   4.772E+03   4.268E+03   3.882E+03   2.283E+03   8.054E+02   1.401E+02   6.474E-04   7.450E-05
IY=  9   4.929E+03   4.645E+03   4.233E+03   5.137E+03   3.615E+03   1.546E+03   4.112E+02   8.540E-04   6.647E-05
IY=  8   1.475E+01   1.597E+01   2.397E+01   4.291E+03   4.077E+03   2.011E+03   6.135E+02   5.307E-03   5.946E-05
IY=  7   1.679E+00   4.183E+00   1.989E+01   3.860E+03   4.216E+03   2.155E+03   6.784E+02   9.051E-03   5.317E-05
IY=  6   2.369E+03   1.903E+03   7.468E+02   4.324E+01   3.840E+03   1.848E+03   5.755E+02   7.090E-03   4.786E-05
IY=  5   1.072E+05   1.038E+05   8.832E+04   2.457E+04   3.848E+03   1.320E+03   3.510E+02   4.155E-03   4.300E-05
IY=  4   2.874E+05   2.521E+05   6.968E+04   4.730E+04   4.111E+03   8.384E+02   1.478E+02   1.592E-03   3.813E-05
IY=  3   4.197E+05   4.208E+05   1.546E+05   3.282E+04   3.904E+03   6.182E+02   8.439E+01   5.181E-04   3.472E-05
IY=  2   3.726E+05   3.573E+05   2.295E+05   3.526E+04   3.774E+03   3.904E+02   2.211E+01   1.212E-04   3.203E-05
IY=  1   8.846E+01   4.820E+01   1.515E+01   2.866E+00   3.430E-01   6.206E-02   2.822E-02   1.272E-03   2.908E-05
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.196E+05   3.191E+05   3.183E+05   3.172E+05   3.164E+05   3.155E+05   3.142E+05   3.123E+05   3.117E+05
IY= 22   3.100E+05   3.093E+05   3.080E+05   3.061E+05   3.043E+05   3.030E+05   3.021E+05   3.012E+05   3.017E+05
IY= 21   3.080E+05   3.073E+05   3.058E+05   3.039E+05   3.026E+05   3.020E+05   3.009E+05   2.978E+05   2.962E+05
IY= 20   3.068E+05   3.060E+05   3.045E+05   3.029E+05   3.023E+05   3.020E+05   3.008E+05   2.982E+05   2.962E+05
IY= 19   3.060E+05   3.052E+05   3.038E+05   3.029E+05   3.029E+05   3.027E+05   3.014E+05   2.986E+05   2.962E+05
IY= 18   3.058E+05   3.050E+05   3.037E+05   3.030E+05   3.030E+05   3.027E+05   3.012E+05   2.984E+05   2.962E+05
IY= 17   3.057E+05   3.048E+05   3.035E+05   3.031E+05   3.031E+05   3.026E+05   3.009E+05   2.980E+05   2.962E+05
IY= 16   3.058E+05   3.045E+05   3.032E+05   3.030E+05   3.030E+05   3.022E+05   3.003E+05   2.976E+05   2.962E+05
IY= 15   3.060E+05   3.042E+05   3.027E+05   3.027E+05   3.028E+05   3.020E+05   3.000E+05   2.976E+05   2.962E+05
IY= 14   3.062E+05   3.035E+05   3.017E+05   3.018E+05   3.021E+05   3.013E+05   2.996E+05   2.974E+05   2.962E+05
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IY= 13   3.060E+05   3.027E+05   3.007E+05   3.005E+05   3.009E+05   3.004E+05   2.989E+05   2.971E+05   2.962E+05
IY= 12   3.053E+05   3.025E+05   3.007E+05   2.999E+05   3.001E+05   2.997E+05   2.982E+05   2.967E+05   2.962E+05
IY= 11   3.093E+05   3.080E+05   3.084E+05   3.081E+05   3.065E+05   3.020E+05   2.985E+05   2.966E+05   2.962E+05
IY= 10   3.334E+05   3.340E+05   3.352E+05   3.338E+05   3.285E+05   3.173E+05   3.060E+05   2.967E+05   2.962E+05
IY=  9   3.654E+05   3.655E+05   3.639E+05   3.587E+05   3.489E+05   3.326E+05   3.162E+05   2.986E+05   2.962E+05
IY=  8   3.984E+05   3.953E+05   3.867E+05   3.773E+05   3.644E+05   3.445E+05   3.242E+05   3.027E+05   2.962E+05
IY=  7   4.454E+05   4.370E+05   4.165E+05   3.992E+05   3.769E+05   3.507E+05   3.278E+05   3.039E+05   2.962E+05
IY=  6   8.019E+05   7.407E+05   6.345E+05   4.057E+05   3.715E+05   3.462E+05   3.254E+05   3.018E+05   2.962E+05
IY=  5   8.121E+05   7.697E+05   6.059E+05   3.941E+05   3.580E+05   3.359E+05   3.181E+05   2.990E+05   2.962E+05
IY=  4   7.671E+05   7.563E+05   7.135E+05   4.133E+05   3.504E+05   3.248E+05   3.089E+05   2.973E+05   2.962E+05
IY=  3   6.951E+05   6.702E+05   5.874E+05   4.130E+05   3.464E+05   3.189E+05   3.048E+05   2.967E+05   2.962E+05
IY=  2   6.000E+05   5.655E+05   4.911E+05   4.008E+05   3.416E+05   3.119E+05   2.992E+05   2.963E+05   2.962E+05
IY=  1   4.516E+05   4.316E+05   3.913E+05   3.498E+05   3.164E+05   3.008E+05   2.966E+05   2.962E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.319E-01   1.364E-01   1.433E-01   1.525E-01   1.757E-01   2.315E-01   3.028E-01   3.655E-01   4.348E-01
IY= 22   1.581E-01   1.562E-01   1.509E-01   1.383E-01   1.250E-01   1.212E-01   1.204E-01   1.193E-01   1.456E-01
IY= 21   1.506E-01   1.447E-01   1.306E-01   9.973E-02   6.331E-02   3.631E-02   1.840E-02   2.995E-03   3.305E-03
IY= 20   1.439E-01   1.313E-01   1.018E-01   5.517E-02   3.539E-02   2.650E-02   1.646E-02   4.032E-03   3.166E-03
IY= 19   1.341E-01   1.145E-01   7.549E-02   5.041E-02   5.190E-02   5.510E-02   3.564E-02   5.621E-03   3.056E-03
IY= 18   1.331E-01   1.114E-01   7.076E-02   5.237E-02   6.096E-02   7.513E-02   5.461E-02   6.420E-03   3.045E-03
IY= 17   1.344E-01   1.102E-01   6.786E-02   6.179E-02   8.467E-02   1.023E-01   6.783E-02   6.793E-03   3.001E-03
IY= 16   1.423E-01   1.168E-01   6.806E-02   7.779E-02   1.153E-01   1.260E-01   7.196E-02   7.053E-03   2.945E-03
IY= 15   1.400E-01   1.096E-01   6.757E-02   9.090E-02   1.309E-01   1.364E-01   7.254E-02   7.396E-03   2.897E-03
IY= 14   1.345E-01   9.827E-02   7.517E-02   1.163E-01   1.550E-01   1.407E-01   7.012E-02   7.512E-03   2.810E-03
IY= 13   1.018E-01   1.071E-01   1.224E-01   1.468E-01   1.661E-01   1.286E-01   6.257E-02   7.242E-03   2.698E-03
IY= 12   6.025E-01   6.148E-01   5.891E-01   4.811E-01   5.394E-01   1.568E-01   5.387E-02   6.600E-03   2.564E-03
IY= 11   1.493E+00   1.477E+00   1.460E+00   1.349E+00   1.030E+00   4.825E-01   1.199E-01   5.819E-03   2.432E-03
IY= 10   1.912E+00   1.895E+00   1.915E+00   2.082E+00   1.782E+00   1.194E+00   5.418E-01   5.100E-03   2.325E-03
IY=  9   1.549E+00   1.547E+00   1.604E+00   2.258E+00   2.238E+00   1.616E+00   9.224E-01   5.593E-03   2.239E-03
IY=  8   7.257E-02   7.452E-02   8.533E-02   1.587E+00   2.215E+00   1.832E+00   1.156E+00   1.028E-02   2.157E-03
IY=  7   3.553E-02   4.816E-02   8.099E-02   1.154E+00   2.040E+00   1.867E+00   1.241E+00   1.229E-02   2.078E-03
IY=  6   3.502E-01   3.256E-01   2.807E-01   1.308E-01   2.120E+00   1.904E+00   1.228E+00   1.133E-02   2.007E-03
IY=  5   2.935E+00   2.522E+00   1.198E+00   5.874E-01   2.373E+00   1.884E+00   1.121E+00   9.477E-03   1.936E-03
IY=  4   1.068E+01   8.960E+00   2.073E+00   7.722E-01   2.372E+00   1.811E+00   8.980E-01   6.884E-03   1.860E-03
IY=  3   9.250E+00   7.979E+00   2.928E+00   1.510E+00   2.366E+00   1.744E+00   6.989E-01   4.735E-03   1.803E-03
IY=  2   7.171E+00   6.732E+00   5.280E+00   2.853E+00   2.212E+00   1.635E+00   3.106E-01   2.917E-03   1.755E-03
IY=  1   2.703E-01   2.208E-01   1.501E-01   8.618E-02   4.247E-02   2.402E-02   1.847E-02   6.480E-03   1.699E-03
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.183E+02   3.178E+02   3.170E+02   3.160E+02   3.151E+02   3.142E+02   3.130E+02   3.110E+02   3.104E+02
IY= 22   3.087E+02   3.081E+02   3.067E+02   3.049E+02   3.031E+02   3.018E+02   3.009E+02   3.000E+02   3.005E+02
IY= 21   3.068E+02   3.060E+02   3.046E+02   3.027E+02   3.014E+02   3.008E+02   2.997E+02   2.966E+02   2.950E+02
IY= 20   3.056E+02   3.048E+02   3.033E+02   3.017E+02   3.011E+02   3.008E+02   2.996E+02   2.970E+02   2.950E+02
IY= 19   3.048E+02   3.040E+02   3.026E+02   3.017E+02   3.017E+02   3.015E+02   3.002E+02   2.974E+02   2.950E+02
IY= 18   3.046E+02   3.038E+02   3.025E+02   3.018E+02   3.018E+02   3.015E+02   3.000E+02   2.972E+02   2.950E+02
IY= 17   3.045E+02   3.036E+02   3.023E+02   3.019E+02   3.019E+02   3.014E+02   2.997E+02   2.969E+02   2.950E+02
IY= 16   3.046E+02   3.033E+02   3.020E+02   3.018E+02   3.018E+02   3.010E+02   2.991E+02   2.965E+02   2.950E+02
IY= 15   3.048E+02   3.030E+02   3.015E+02   3.015E+02   3.016E+02   3.008E+02   2.988E+02   2.964E+02   2.950E+02
IY= 14   3.049E+02   3.023E+02   3.005E+02   3.006E+02   3.009E+02   3.001E+02   2.984E+02   2.962E+02   2.950E+02
IY= 13   3.047E+02   3.015E+02   2.995E+02   2.993E+02   2.997E+02   2.992E+02   2.977E+02   2.959E+02   2.950E+02
IY= 12   3.041E+02   3.013E+02   2.995E+02   2.987E+02   2.989E+02   2.985E+02   2.970E+02   2.956E+02   2.950E+02
IY= 11   3.081E+02   3.068E+02   3.072E+02   3.069E+02   3.053E+02   3.008E+02   2.973E+02   2.954E+02   2.950E+02
IY= 10   3.320E+02   3.327E+02   3.339E+02   3.324E+02   3.272E+02   3.161E+02   3.048E+02   2.955E+02   2.950E+02
IY=  9   3.640E+02   3.640E+02   3.624E+02   3.573E+02   3.475E+02   3.312E+02   3.149E+02   2.974E+02   2.950E+02
IY=  8   3.968E+02   3.938E+02   3.851E+02   3.758E+02   3.629E+02   3.431E+02   3.229E+02   3.015E+02   2.950E+02
IY=  7   4.436E+02   4.353E+02   4.149E+02   3.977E+02   3.754E+02   3.493E+02   3.265E+02   3.027E+02   2.950E+02
IY=  6   7.987E+02   7.377E+02   6.320E+02   4.041E+02   3.700E+02   3.448E+02   3.241E+02   3.006E+02   2.950E+02
IY=  5   8.088E+02   7.667E+02   6.035E+02   3.925E+02   3.566E+02   3.346E+02   3.168E+02   2.979E+02   2.950E+02
IY=  4   7.640E+02   7.533E+02   7.107E+02   4.117E+02   3.490E+02   3.235E+02   3.077E+02   2.961E+02   2.950E+02
IY=  3   6.924E+02   6.675E+02   5.850E+02   4.113E+02   3.450E+02   3.176E+02   3.036E+02   2.955E+02   2.950E+02
IY=  2   5.976E+02   5.632E+02   4.892E+02   3.992E+02   3.402E+02   3.106E+02   2.980E+02   2.951E+02   2.950E+02
IY=  1   4.498E+02   4.299E+02   3.898E+02   3.484E+02   3.151E+02   2.996E+02   2.954E+02   2.950E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.113E+00   1.115E+00   1.118E+00   1.121E+00   1.124E+00   1.128E+00   1.132E+00   1.139E+00   1.141E+00
IY= 22   1.148E+00   1.150E+00   1.155E+00   1.162E+00   1.169E+00   1.174E+00   1.177E+00   1.181E+00   1.179E+00
IY= 21   1.155E+00   1.158E+00   1.163E+00   1.171E+00   1.175E+00   1.178E+00   1.182E+00   1.194E+00   1.201E+00
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IY= 20   1.159E+00   1.162E+00   1.168E+00   1.174E+00   1.176E+00   1.178E+00   1.182E+00   1.193E+00   1.201E+00
IY= 19   1.162E+00   1.165E+00   1.171E+00   1.174E+00   1.174E+00   1.175E+00   1.180E+00   1.191E+00   1.201E+00
IY= 18   1.163E+00   1.166E+00   1.171E+00   1.174E+00   1.174E+00   1.175E+00   1.181E+00   1.192E+00   1.201E+00
IY= 17   1.163E+00   1.167E+00   1.172E+00   1.173E+00   1.173E+00   1.175E+00   1.182E+00   1.193E+00   1.201E+00
IY= 16   1.163E+00   1.168E+00   1.173E+00   1.174E+00   1.174E+00   1.177E+00   1.184E+00   1.195E+00   1.201E+00
IY= 15   1.162E+00   1.169E+00   1.175E+00   1.175E+00   1.174E+00   1.178E+00   1.185E+00   1.195E+00   1.201E+00
IY= 14   1.162E+00   1.172E+00   1.179E+00   1.178E+00   1.177E+00   1.180E+00   1.187E+00   1.196E+00   1.201E+00
IY= 13   1.162E+00   1.175E+00   1.183E+00   1.184E+00   1.182E+00   1.184E+00   1.190E+00   1.197E+00   1.201E+00
IY= 12   1.165E+00   1.176E+00   1.183E+00   1.186E+00   1.185E+00   1.187E+00   1.193E+00   1.198E+00   1.201E+00
IY= 11   1.150E+00   1.155E+00   1.153E+00   1.154E+00   1.160E+00   1.177E+00   1.191E+00   1.199E+00   1.201E+00
IY= 10   1.067E+00   1.065E+00   1.061E+00   1.066E+00   1.083E+00   1.121E+00   1.162E+00   1.199E+00   1.201E+00
IY=  9   9.743E-01   9.743E-01   9.784E-01   9.918E-01   1.019E+00   1.069E+00   1.125E+00   1.191E+00   1.201E+00
IY=  8   9.021E-01   9.086E-01   9.267E-01   9.422E-01   9.757E-01   1.032E+00   1.097E+00   1.175E+00   1.201E+00
IY=  7   8.075E-01   8.225E-01   8.604E-01   8.889E-01   9.429E-01   1.014E+00   1.085E+00   1.170E+00   1.201E+00
IY=  6   4.235E-01   4.596E-01   5.381E-01   8.718E-01   9.558E-01   1.027E+00   1.093E+00   1.178E+00   1.201E+00
IY=  5   4.207E-01   4.462E-01   5.739E-01   8.972E-01   9.916E-01   1.058E+00   1.118E+00   1.189E+00   1.201E+00
IY=  4   4.561E-01   4.636E-01   4.945E-01   8.579E-01   1.014E+00   1.094E+00   1.151E+00   1.196E+00   1.201E+00
IY=  3   5.087E-01   5.280E-01   6.037E-01   8.597E-01   1.026E+00   1.115E+00   1.166E+00   1.198E+00   1.201E+00
IY=  2   5.918E-01   6.279E-01   7.232E-01   8.865E-01   1.041E+00   1.140E+00   1.188E+00   1.200E+00   1.201E+00
IY=  1   7.871E-01   8.234E-01   9.082E-01   1.016E+00   1.124E+00   1.182E+00   1.199E+00   1.200E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

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TIME STP=      1 SWEEP NO=    70 ZSLAB NO=    40 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ= 40. ISWEEP=  70. ISTEP=   1
FIELD VALUES OF P1
IY= 23   2.304E+00   2.063E+00   1.818E+00   1.475E+00   1.102E+00   7.660E-01   5.840E-01   5.484E-01   1.129E-01
IY= 22  -1.918E+00  -2.005E+00  -2.055E+00  -2.112E+00  -2.176E+00  -2.168E+00  -2.083E+00  -1.789E+00  -1.573E+00
IY= 21  -3.014E+00  -3.027E+00  -3.104E+00  -3.235E+00  -3.303E+00  -3.148E+00  -2.779E+00  -2.513E+00  -1.086E+00
IY= 20  -5.353E+00  -5.330E+00  -5.310E+00  -5.319E+00  -5.251E+00  -4.920E+00  -4.139E+00  -3.367E+00  -9.500E-01
IY= 19  -7.766E+00  -7.609E+00  -7.711E+00  -7.777E+00  -7.648E+00  -7.077E+00  -5.781E+00  -4.280E+00  -8.671E-01
IY= 18  -9.806E+00  -9.256E+00  -9.570E+00  -9.882E+00  -1.006E+01  -9.638E+00  -7.911E+00  -5.565E+00  -8.380E-01
IY= 17  -1.087E+01  -9.907E+00  -1.019E+01  -1.053E+01  -1.107E+01  -1.085E+01  -9.185E+00  -6.700E+00  -8.147E-01
IY= 16  -1.028E+01  -8.674E+00  -8.792E+00  -8.824E+00  -1.081E+01  -1.192E+01  -1.058E+01  -8.079E+00  -7.929E-01
IY= 15  -1.059E+01  -8.890E+00  -9.335E+00  -1.265E+01  -1.468E+01  -1.391E+01  -1.158E+01  -8.929E+00  -7.805E-01
IY= 14  -2.609E+01  -2.342E+01  -2.125E+01  -1.963E+01  -1.766E+01  -1.462E+01  -1.312E+01  -1.047E+01  -7.586E-01
IY= 13   3.992E+01   4.114E+01   2.903E+01  -3.693E+01  -2.543E+01  -1.622E+01  -1.521E+01  -1.238E+01  -7.384E-01
IY= 12   1.312E+02   1.297E+02   9.692E+01  -5.675E+01  -3.764E+01  -1.955E+01  -1.715E+01  -1.423E+01  -7.203E-01
IY= 11   1.511E+02   1.527E+02   1.094E+02  -1.135E+02  -6.207E+01  -2.637E+01  -1.858E+01  -1.550E+01  -7.073E-01
IY= 10   2.961E+02   3.025E+02   3.242E+02  -3.247E+02  -1.097E+02  -3.784E+01  -2.082E+01  -1.620E+01  -6.989E-01
IY=  9   1.959E+02   2.003E+02   2.186E+02  -3.799E+02  -1.441E+02  -4.985E+01  -2.456E+01  -1.741E+01  -6.920E-01
IY=  8  -1.171E+02  -1.262E+02  -1.009E+02  -2.740E+02  -1.481E+02  -6.049E+01  -3.004E+01  -1.975E+01  -6.858E-01
IY=  7  -4.118E+01  -1.746E+02  -3.351E+02  -2.929E+02  -1.550E+02  -7.022E+01  -3.720E+01  -2.349E+01  -6.803E-01
IY=  6   1.084E+02  -7.683E+01  -2.842E+02  -2.949E+02  -1.568E+02  -7.699E+01  -4.461E+01  -2.793E+01  -6.760E-01
IY=  5   2.006E+02   6.942E+01  -1.370E+02  -2.568E+02  -1.465E+02  -7.759E+01  -5.086E+01  -3.176E+01  -6.715E-01
IY=  4   1.771E+02   9.700E+01   8.222E+01  -1.600E+02  -1.189E+02  -7.325E+01  -5.419E+01  -3.474E+01  -6.675E-01
IY=  3   1.269E+02   5.301E+01   1.195E+01  -9.748E+01  -9.296E+01  -6.756E+01  -5.373E+01  -3.540E+01  -6.659E-01
IY=  2   1.633E+01  -3.326E+01  -5.054E+01  -7.285E+01  -7.405E+01  -6.134E+01  -5.383E+01  -3.658E+01  -6.629E-01
IY=  1  -5.850E+01  -6.652E+01  -7.422E+01  -7.182E+01  -6.719E+01  -5.838E+01  -5.182E+01  -3.626E+01  -6.629E-01
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -2.453E-01  -4.514E-01  -6.750E-01  -7.877E-01  -8.003E-01  -6.508E-01  -3.501E-01   3.120E-03
IY= 22  -1.614E-01  -2.944E-01  -4.749E-01  -6.057E-01  -7.005E-01  -7.103E-01  -7.081E-01  -5.430E-01
IY= 21   7.136E-02   1.375E-01   2.263E-01   2.919E-01   3.842E-01   2.457E-01  -7.071E-03  -1.101E-08
IY= 20   5.278E-02   1.112E-01   2.494E-01   4.126E-01   6.295E-01   5.279E-01   6.802E-02   3.604E-11
IY= 19   3.598E-01   6.272E-01   1.020E+00   1.289E+00   1.382E+00   1.117E+00   3.768E-01   4.176E-10
IY= 18   6.574E-01   1.143E+00   1.823E+00   2.180E+00   2.179E+00   1.750E+00   7.355E-01   4.836E-10
IY= 17   8.281E-01   1.473E+00   2.339E+00   2.643E+00   2.424E+00   1.781E+00   6.444E-01   3.519E-10
IY= 16   1.126E+00   2.070E+00   3.247E+00   3.374E+00   2.698E+00   1.569E+00   1.497E-01   3.346E-11
IY= 15   1.501E+00   2.897E+00   4.722E+00   4.236E+00   2.507E+00   6.817E-01  -7.452E-01   3.665E-12
IY= 14   1.789E+00   3.559E+00   6.044E+00   4.959E+00   2.614E+00   5.346E-01  -8.499E-01   1.394E-16
IY= 13   2.493E+00   5.339E+00   1.044E+01   7.253E+00   3.661E+00   9.713E-01  -7.118E-01  -2.509E-14
IY= 12   3.039E+00   6.734E+00   1.364E+01   8.946E+00   4.268E+00   1.178E+00  -7.156E-01   1.877E-11
IY= 11   3.354E+00   7.614E+00   1.553E+01   9.337E+00   4.253E+00   1.211E+00  -6.824E-01   2.958E-12
IY= 10   2.696E+00   3.849E+00   4.259E-05   4.554E+00   3.247E+00   1.107E+00  -6.179E-01  -2.112E-13
IY=  9  -4.056E+00   1.003E+00   3.100E-05   3.411E+00   2.348E+00   7.663E-01  -7.061E-01   1.217E-10
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IY=  8   -5.525E+00   -6.147E+00    3.053E+00   -5.953E-01    1.907E-01   -2.158E-01   -1.142E+00   -1.763E-11
IY=  7   -1.013E+01   -1.347E+01   -6.221E+00   -5.533E+00   -2.624E+00   -1.777E+00   -1.961E+00    5.838E-15
IY=  6   -1.379E+01   -2.142E+01   -2.500E+01   -1.298E+01   -6.170E+00   -3.622E+00   -2.849E+00    6.156E-15
IY=  5   -1.120E+01   -1.815E+01   -2.050E+01   -1.517E+01   -8.916E+00   -5.334E+00   -3.670E+00    8.483E-15
IY=  4   -5.486E+00   -8.847E+00   -7.409E+00   -1.178E+01   -9.387E+00   -6.403E+00   -4.148E+00    1.093E-14
IY=  3   -3.235E+00   -5.100E+00   -5.473E+00   -9.110E+00   -8.458E+00   -6.360E+00   -4.195E+00    5.507E-15
IY=  2   -2.640E+00   -4.324E+00   -5.868E+00   -7.203E+00   -7.279E+00   -5.948E+00   -4.076E+00    1.685E-14
IY=  1   -3.054E+00   -5.022E+00   -6.505E+00   -6.433E+00   -6.365E+00   -5.356E+00   -3.950E+00    1.944E-13
 IX=          1            2            3            4            5            6            7            8
FIELD VALUES OF V1
IY= 22    5.381E-01    6.627E-01    8.026E-01    9.775E-01    1.141E+00    1.306E+00    1.217E+00    6.360E-01   -8.257E-04
IY= 21   -1.315E+00   -1.248E+00   -1.076E+00   -7.739E-01   -3.141E-01    2.839E-01    6.115E-01    5.250E-01    1.016E+00
IY= 20   -1.150E+00   -1.104E+00   -1.011E+00   -8.864E-01   -4.362E-01    3.738E-01    1.225E+00    8.039E-01    7.364E-01
IY= 19   -5.449E-01   -4.189E-01   -2.002E-01   -2.108E-02    4.236E-01    1.001E+00    1.565E+00    1.127E+00    6.409E-01
IY= 18    2.511E+00    2.565E+00    2.479E+00    2.152E+00    1.768E+00    1.587E+00    1.571E+00    9.840E-01    5.619E-01
IY= 17    4.340E+00    4.341E+00    4.024E+00    3.231E+00    2.220E+00    1.537E+00    1.241E+00    5.340E-01    5.313E-01
IY= 16    6.097E+00    6.078E+00    5.543E+00    4.194E+00    2.453E+00    1.277E+00    7.089E-01   -3.436E-02    4.994E-01
IY= 15    8.471E+00    8.360E+00    7.486E+00    5.205E+00    2.435E+00    7.274E-01    2.981E-02   -2.889E-01    4.660E-01
IY= 14    1.052E+01    1.033E+01    9.265E+00    6.397E+00    3.047E+00    8.066E-01   -1.968E-01   -3.616E-01    4.458E-01
IY= 13    1.420E+01    1.393E+01    1.253E+01    8.153E+00    3.897E+00    1.012E+00   -4.028E-01   -4.576E-01    4.050E-01
IY= 12    1.350E+01    1.333E+01    1.212E+01    8.366E+00    4.088E+00    9.612E-01   -5.619E-01   -6.918E-01    3.622E-01
IY= 11    9.518E+00    9.643E+00    8.980E+00    6.440E+00    3.179E+00    4.968E-01   -6.731E-01   -7.595E-01    3.181E-01
IY= 10    1.109E-05    1.392E-05    1.995E-05   -4.744E-01    4.578E-01   -5.457E-01   -1.077E+00   -7.300E-01    2.811E-01
IY=  9    2.725E+00   -4.430E+00   -9.673E+00    1.254E-01   -9.896E-01   -1.610E+00   -1.736E+00   -9.953E-01    2.543E-01
IY=  8    1.455E+01    1.190E+01   -5.297E+00   -1.940E+00   -2.925E+00   -2.822E+00   -2.568E+00   -1.469E+00    2.293E-01
IY=  7    4.438E+01    4.134E+01    2.714E+01   -5.271E+00   -3.893E+00   -3.716E+00   -3.384E+00   -1.995E+00    2.044E-01
IY=  6    5.783E+01    5.571E+01    3.939E+01   -5.873E+00   -3.927E+00   -4.155E+00   -3.962E+00   -2.317E+00    1.795E-01
IY=  5    5.638E+01    5.353E+01    3.594E+01    2.280E+00   -1.830E+00   -3.619E+00   -3.985E+00   -2.219E+00    1.571E-01
IY=  4    3.641E+01    3.321E+01    2.553E+01    8.125E+00    9.585E-01   -2.184E+00   -3.332E+00   -1.727E+00    1.299E-01
IY=  3    2.150E+01    1.919E+01    1.306E+01    7.300E+00    2.377E+00   -7.826E-01   -1.941E+00   -9.631E-01    9.866E-02
IY=  2    1.439E+01    1.271E+01    8.678E+00    5.450E+00    2.374E+00   -3.609E-01   -1.297E+00   -6.017E-01    8.384E-02
IY=  1    5.382E+00    5.266E+00    3.843E+00    2.154E+00    1.322E+00    1.085E-01    1.590E-01    3.365E-02    4.217E-02
 IX=          1            2            3            4            5            6            7            8            9
FIELD VALUES OF W1
IY= 23   -1.938E+00   -1.890E+00   -1.855E+00   -1.858E+00   -1.907E+00   -1.979E+00   -1.965E+00   -1.517E+00   -1.355E-06
IY= 22    9.447E-02    7.745E-02    1.256E-01    1.616E-01    1.516E-01    9.494E-02    6.058E-02    4.570E-02   -2.350E-01
IY= 21   -2.932E-01   -2.774E-01   -2.283E-01   -1.704E-01   -2.072E-01   -2.744E-01   -3.964E-01   -3.789E-01    1.471E-01
IY= 20    9.226E-02    8.197E-02    4.557E-02    5.465E-03   -1.154E-01   -3.030E-01   -5.210E-01   -5.779E-01    1.107E-01
IY= 19    2.061E-01    2.469E-01    1.564E-01    8.250E-02   -7.958E-02   -2.840E-01   -5.919E-01   -7.889E-01    1.066E-01
IY= 18    3.608E-01    4.654E-01    3.469E-01    2.569E-01    8.840E-03   -2.342E-01   -5.791E-01   -9.253E-01    1.276E-01
IY= 17    8.638E-01    9.902E-01    8.532E-01    7.361E-01    3.182E-01   -5.160E-02   -4.941E-01   -9.184E-01    1.337E-01
IY= 16    1.680E+00    1.820E+00    1.705E+00    1.744E+00    1.076E+00    3.853E-01   -3.081E-01   -8.621E-01    1.409E-01
IY= 15    3.016E+00    3.155E+00    3.204E+00    4.735E+00    3.955E+00    1.884E+00   -1.674E-01   -1.595E+00    1.483E-01
IY= 14    3.246E+00    3.393E+00    3.517E+00    6.405E+00    5.666E+00    2.786E+00    5.705E-02   -1.562E+00    1.522E-01
IY= 13    7.538E-09    1.563E-08    5.019E-08    9.956E+00    9.137E+00    5.090E+00    1.196E+00   -1.282E+00    1.601E-01
IY= 12    7.175E-08    8.248E-08    1.587E-07    1.452E+01    1.377E+01    8.318E+00    3.068E+00   -7.917E-01    1.667E-01
IY= 11    5.087E-08    7.491E-08    2.134E-07    1.936E+01    1.944E+01    1.252E+01    5.698E+00    7.913E-02    1.720E-01
IY= 10   -6.322E-09    5.614E-09    2.078E-08    2.335E+01    2.401E+01    1.619E+01    8.170E+00    1.053E+00    1.752E-01
IY=  9    2.147E-04    1.482E-04    2.307E-05    1.856E+01    2.618E+01    1.858E+01    9.940E+00    1.870E+00    1.770E-01
IY=  8    1.100E+02    9.227E+01    5.401E+01    2.677E+01    2.819E+01    1.982E+01    1.085E+01    2.175E+00    1.782E-01
IY=  7    1.802E+02    1.493E+02    8.548E+01    2.533E+01    2.787E+01    1.926E+01    1.050E+01    1.709E+00    1.789E-01
IY=  6    2.719E+02    2.234E+02    1.179E+02    2.790E+01    2.407E+01    1.648E+01    8.901E+00    1.075E+00    1.791E-01
IY=  5    3.605E+02    3.108E+02    1.827E+02    3.603E+01    1.932E+01    1.213E+01    6.266E+00    5.056E-01    1.789E-01
IY=  4    3.155E+02    3.000E+02    2.451E+02    6.227E+01    1.765E+01    8.188E+00    3.327E+00    8.739E-02    1.781E-01
IY=  3    2.340E+02    2.135E+02    1.591E+02    5.780E+01    1.646E+01    6.254E+00    2.069E+00   -1.065E-01    1.761E-01
IY=  2    1.534E+02    1.349E+02    9.724E+01    4.622E+01    1.420E+01    4.113E+00    2.471E-01   -4.011E-01    1.752E-01
IY=  1    7.229E+01    5.307E+01    3.255E+01    1.368E+01    4.322E+00    4.267E-01   -1.761E+00   -1.014E+00    1.685E-01
 IX=          1            2            3            4            5            6            7            8            9
FIELD VALUES OF KE
IY= 23    9.023E-01    9.017E-01    8.756E-01    9.027E-01    1.018E+00    1.360E+00    2.287E+00    4.072E+00    4.968E+00
IY= 22    4.471E-01    4.624E-01    4.633E-01    4.362E-01    4.186E-01    4.148E-01    4.166E-01    3.814E-01    4.011E-01
IY= 21    1.992E-01    2.112E-01    2.315E-01    2.411E-01    2.274E-01    1.821E-01    1.762E-01    4.445E-03    5.877E-03
IY= 20    5.309E-01    8.139E-01    9.193E-01    9.480E-01    9.901E-01    9.802E-01    6.701E-01    8.922E-03    3.801E-03
IY= 19    3.505E+00    4.384E+00    4.725E+00    4.566E+00    3.872E+00    2.990E+00    1.892E+00    1.188E-02    2.994E-03
IY= 18    8.732E+00    1.007E+01    1.055E+01    1.015E+01    8.205E+00    5.959E+00    3.959E+00    9.977E-03    2.572E-03
IY= 17    1.189E+01    1.333E+01    1.427E+01    1.444E+01    1.171E+01    8.194E+00    5.027E+00    6.594E-03    2.339E-03
IY= 16    1.624E+01    1.752E+01    1.898E+01    2.088E+01    1.749E+01    1.197E+01    6.503E+00    5.690E-03    2.111E-03
IY= 15    1.741E+01    1.887E+01    2.092E+01    2.826E+01    2.736E+01    1.813E+01    9.080E+00    1.743E-02    1.939E-03
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IY= 14   1.403E+01   1.548E+01   1.762E+01   3.236E+01   3.506E+01   2.371E+01   1.126E+01   1.717E-02   1.743E-03
IY= 13   9.849E-01   9.987E-01   1.058E+00   3.955E+01   5.198E+01   3.789E+01   1.771E+01   1.333E-02   1.501E-03
IY= 12   7.244E-01   7.901E-01   1.063E+00   6.236E+01   8.505E+01   6.106E+01   2.960E+01   8.201E-03   1.272E-03
IY= 11   1.309E-01   2.291E-01   7.103E-01   1.034E+02   1.358E+02   9.927E+01   5.005E+01   4.280E-03   1.078E-03
IY= 10   5.316E-02   8.175E-02   1.065E-01   2.421E+00   1.706E+02   1.351E+02   7.202E+01   1.259E-02   9.403E-04
IY=  9   4.829E-01   1.002E-01   3.049E-01   1.589E+00   1.846E+02   1.562E+02   8.756E+01   3.111E-02   8.367E-04
IY=  8   9.750E+02   7.283E+02   3.116E+02   2.476E+01   1.961E+02   1.676E+02   9.569E+01   4.614E-02   7.446E-04
IY=  7   2.523E+03   1.861E+03   6.768E+02   7.439E+01   2.211E+02   1.712E+02   9.434E+01   4.525E-02   6.605E-04
IY=  6   3.811E+03   3.267E+03   2.062E+03   6.375E+02   2.656E+02   1.614E+02   8.183E+01   3.828E-02   5.879E-04
IY=  5   3.848E+03   4.006E+03   3.602E+03   1.751E+03   3.370E+02   1.402E+02   5.800E+01   2.618E-02   5.199E-04
IY=  4   6.120E+03   5.348E+03   3.963E+03   2.959E+03   5.429E+02   1.365E+02   2.983E+01   1.237E-02   4.505E-04
IY=  3   6.529E+03   6.094E+03   4.691E+03   2.108E+03   4.975E+02   1.203E+02   1.831E+01   4.708E-03   4.017E-04
IY=  2   5.097E+03   4.687E+03   3.470E+03   1.415E+03   3.810E+02   9.422E+01   4.437E+00   2.007E-03   3.591E-04
IY=  1   1.865E+01   1.054E+01   4.357E+00   1.028E+00   2.979E-01   1.804E-01   1.330E-01   1.895E-02   3.175E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   5.889E-01   5.573E-01   5.062E-01   5.267E-01   6.280E-01   9.235E-01   1.785E+00   3.722E+00   4.006E+00
IY= 22   1.408E-01   1.522E-01   1.560E-01   1.493E-01   1.518E-01   1.638E-01   1.783E-01   1.631E-01   1.746E-01
IY= 21   5.118E-02   5.632E-02   6.378E-02   7.119E-02   7.218E-02   1.197E-01   1.568E-01   4.070E-04   6.496E-04
IY= 20   3.281E-01   7.304E-01   8.858E-01   9.750E-01   1.263E+00   1.261E+00   8.213E-01   1.158E-03   3.378E-04
IY= 19   7.555E+00   1.053E+01   1.145E+01   1.064E+01   8.214E+00   5.579E+00   3.033E+00   1.778E-03   2.361E-04
IY= 18   2.575E+01   3.167E+01   3.325E+01   3.060E+01   2.214E+01   1.395E+01   7.811E+00   1.369E-03   1.881E-04
IY= 17   4.013E+01   4.673E+01   5.017E+01   4.860E+01   3.475E+01   2.067E+01   1.079E+01   7.355E-04   1.631E-04
IY= 16   6.392E+01   7.138E+01   7.678E+01   8.119E+01   5.922E+01   3.326E+01   1.507E+01   5.896E-04   1.399E-04
IY= 15   8.334E+01   9.298E+01   1.020E+02   1.354E+02   1.122E+02   5.821E+01   2.076E+01   3.160E-03   1.231E-04
IY= 14   7.295E+01   8.259E+01   9.319E+01   1.766E+02   1.645E+02   8.623E+01   2.752E+01   3.091E-03   1.049E-04
IY= 13   2.329E+00   2.378E+00   2.594E+00   2.651E+02   2.986E+02   1.711E+02   5.434E+01   2.115E-03   8.387E-05
IY= 12   1.469E+00   1.673E+00   2.610E+00   4.933E+02   5.766E+02   3.302E+02   1.116E+02   1.020E-03   6.537E-05
IY= 11   9.217E-02   2.134E-01   1.165E+00   9.830E+02   1.123E+03   6.480E+02   2.354E+02   3.845E-04   5.105E-05
IY= 10   2.747E-02   5.238E-02   7.438E-02   7.298E+00   1.609E+03   1.023E+03   4.025E+02   1.941E-03   4.157E-05
IY=  9   7.995E-01   7.561E-02   3.636E-01   3.880E+00   1.835E+03   1.264E+03   5.338E+02   7.538E-03   3.489E-05
IY=  8   6.597E+04   4.596E+04   1.848E+04   7.293E+02   1.968E+03   1.383E+03   6.036E+02   1.361E-02   2.929E-05
IY=  7   1.770E+05   1.260E+05   4.531E+04   8.115E+02   2.239E+03   1.406E+03   5.870E+02   1.322E-02   2.447E-05
IY=  6   2.680E+05   2.357E+05   1.544E+05   2.157E+04   2.621E+03   1.218E+03   4.664E+02   1.029E-02   2.055E-05
IY=  5   2.149E+05   2.674E+05   3.003E+05   8.791E+04   3.238E+03   8.788E+02   2.873E+02   5.816E-03   1.709E-05
IY=  4   3.214E+05   2.885E+05   2.621E+05   1.885E+05   6.357E+03   5.942E+02   1.241E+02   1.891E-03   1.378E-05
IY=  3   4.059E+05   3.968E+05   3.197E+05   9.685E+04   6.473E+03   4.511E+02   6.636E+01   4.437E-04   1.161E-05
IY=  2   2.943E+05   2.680E+05   1.796E+05   4.640E+04   4.840E+03   2.963E+02   1.272E+01   1.235E-04   9.809E-06
IY=  1   1.083E+02   4.599E+01   1.222E+01   1.400E+00   2.185E-01   1.030E-01   6.521E-02   3.545E-03   8.154E-06
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.206E+05   3.201E+05   3.195E+05   3.190E+05   3.187E+05   3.184E+05   3.179E+05   3.174E+05   3.170E+05
IY= 22   3.068E+05   3.056E+05   3.036E+05   3.013E+05   3.003E+05   2.999E+05   2.994E+05   2.986E+05   2.990E+05
IY= 21   3.064E+05   3.058E+05   3.048E+05   3.040E+05   3.040E+05   3.048E+05   3.053E+05   3.007E+05   2.971E+05
IY= 20   3.060E+05   3.057E+05   3.052E+05   3.049E+05   3.051E+05   3.054E+05   3.057E+05   3.019E+05   2.969E+05
IY= 19   3.057E+05   3.056E+05   3.055E+05   3.055E+05   3.055E+05   3.056E+05   3.058E+05   3.028E+05   2.966E+05
IY= 18   3.056E+05   3.055E+05   3.054E+05   3.054E+05   3.055E+05   3.057E+05   3.059E+05   3.031E+05   2.964E+05
IY= 17   3.057E+05   3.055E+05   3.054E+05   3.054E+05   3.055E+05   3.057E+05   3.060E+05   3.028E+05   2.963E+05
IY= 16   3.057E+05   3.054E+05   3.054E+05   3.055E+05   3.056E+05   3.058E+05   3.062E+05   3.018E+05   2.963E+05
IY= 15   3.059E+05   3.054E+05   3.055E+05   3.058E+05   3.061E+05   3.064E+05   3.071E+05   3.047E+05   2.962E+05
IY= 14   3.062E+05   3.055E+05   3.058E+05   3.064E+05   3.069E+05   3.070E+05   3.074E+05   3.041E+05   2.962E+05
IY= 13   3.069E+05   3.063E+05   3.069E+05   3.080E+05   3.093E+05   3.091E+05   3.081E+05   3.023E+05   2.962E+05
IY= 12   3.093E+05   3.091E+05   3.106E+05   3.121E+05   3.147E+05   3.142E+05   3.105E+05   3.010E+05   2.962E+05
IY= 11   3.172E+05   3.176E+05   3.199E+05   3.218E+05   3.258E+05   3.231E+05   3.156E+05   3.014E+05   2.962E+05
IY= 10   3.403E+05   3.403E+05   3.421E+05   3.419E+05   3.403E+05   3.322E+05   3.207E+05   3.034E+05   2.962E+05
IY=  9   3.812E+05   3.774E+05   3.620E+05   3.596E+05   3.508E+05   3.382E+05   3.240E+05   3.048E+05   2.962E+05
IY=  8   6.668E+05   6.020E+05   5.276E+05   3.762E+05   3.575E+05   3.410E+05   3.248E+05   3.044E+05   2.962E+05
IY=  7   7.431E+05   6.424E+05   5.240E+05   3.883E+05   3.598E+05   3.399E+05   3.228E+05   3.021E+05   2.962E+05
IY=  6   7.567E+05   6.560E+05   4.990E+05   3.841E+05   3.543E+05   3.343E+05   3.184E+05   3.000E+05   2.962E+05
IY=  5   7.457E+05   6.742E+05   5.217E+05   3.805E+05   3.451E+05   3.254E+05   3.117E+05   2.983E+05   2.962E+05
IY=  4   6.936E+05   6.664E+05   5.869E+05   4.032E+05   3.391E+05   3.168E+05   3.044E+05   2.971E+05   2.962E+05
IY=  3   6.237E+05   5.948E+05   5.239E+05   4.022E+05   3.357E+05   3.123E+05   3.013E+05   2.966E+05   2.962E+05
IY=  2   5.582E+05   5.305E+05   4.728E+05   3.908E+05   3.307E+05   3.079E+05   2.980E+05   2.965E+05   2.962E+05
IY=  1   4.564E+05   4.214E+05   3.755E+05   3.314E+05   3.091E+05   3.045E+05   3.032E+05   2.983E+05   2.962E+05
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.244E-01   1.313E-01   1.363E-01   1.393E-01   1.485E-01   1.804E-01   2.639E-01   4.010E-01   5.546E-01
IY= 22   1.277E-01   1.264E-01   1.238E-01   1.146E-01   1.039E-01   9.455E-02   8.762E-02   8.024E-02   8.295E-02
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1Y= 21   6.980E-02   7.129E-02   7.565E-02   7.348E-02   6.448E-02   2.493E-02   1.782E-02   4.369E-03   4.786E-03
1Y= 20   7.733E-02   8.163E-02   8.586E-02   8.296E-02   6.987E-02   6.856E-02   4.921E-02   6.190E-03   3.849E-03
1Y= 19   1.463E-01   1.642E-01   1.754E-01   1.765E-01   1.643E-01   1.442E-01   1.062E-01   7.141E-03   3.416E-03
1Y= 18   2.665E-01   2.882E-01   3.011E-01   3.031E-01   2.736E-01   2.291E-01   1.806E-01   6.546E-03   3.166E-03
1Y= 17   3.172E-01   3.424E-01   3.651E-01   3.861E-01   3.550E-01   2.924E-01   2.108E-01   5.321E-03   3.020E-03
IY= 16   3.711E-01   3.869E-01   4.224E-01   4.832E-01   4.648E-01   3.880E-01   2.526E-01   4.943E-03   2.869E-03
1Y= 15   3.274E-01   3.445E-01   3.861E-01   5.309E-01   6.003E-01   5.082E-01   3.575E-01   8.651E-03   2.749E-03
1Y= 14   2.428E-01   2.612E-01   2.998E-01   5.337E-01   6.728E-01   5.867E-01   4.149E-01   8.587E-03   2.607E-03
1Y= 13   3.748E-02   3.775E-02   3.885E-02   5.310E-01   8.145E-01   7.554E-01   5.196E-01   7.567E-03   2.419E-03
1Y= 12   3.215E-02   3.357E-02   3.893E-02   7.095E-01   1.129E+00   1.016E+00   7.064E-01   5.935E-03   2.226E-03
1Y= 11   1.672E-02   2.213E-02   3.896E-02   9.793E-01   1.478E+00   1.369E+00   9.579E-01   4.287E-03   2.050E-03
1Y= 10   9.262E-03   1.149E-02   1.373E-02   7.231E-02   1.629E+00   1.605E+00   1.160E+00   7.354E-03   1.914E-03
1Y=  9   2.625E-02   1.196E-02   2.301E-02   5.857E-02   1.671E+00   1.738E+00   1.293E+00   1.156E-02   1.806E-03
1Y=  8   1.297E+00   1.039E+00   4.730E-01   7.568E-02   1.759E+00   1.828E+00   1.365E+00   1.408E-02   1.704E-03
1Y=  7   3.237E+00   2.475E+00   9.100E-01   6.137E-01   1.966E+00   1.877E+00   1.365E+00   1.394E-02   1.604E-03
1Y=  6   4.877E+00   4.076E+00   2.480E+00   1.696E+00   2.423E+00   1.924E+00   1.292E+00   1.282E-02   1.514E-03
1Y=  5   6.201E+00   5.403E+00   3.888E+00   3.140E+00   3.157E+00   2.013E+00   1.054E+00   1.060E-02   1.424E-03
1Y=  4   1.049E+01   8.921E+00   5.395E+00   4.180E+00   4.173E+00   2.821E+00   6.456E-01   7.290E-03   1.325E-03
1Y=  3   9.451E+00   8.422E+00   6.195E+00   4.129E+00   3.441E+00   2.889E+00   4.545E-01   4.496E-03   1.251E-03
1Y=  2   7.944E+00   7.377E+00   6.033E+00   3.881E+00   2.699E+00   2.697E+00   1.393E-01   2.936E-03   1.183E-03
1Y=  1   2.892E-01   2.174E-01   1.398E-01   6.788E-02   3.655E-02   2.844E-02   2.442E-02   9.119E-03   1.112E-03
 1X=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
1Y= 23   3.193E+02   3.188E+02   3.182E+02   3.177E+02   3.174E+02   3.171E+02   3.166E+02   3.161E+02   3.157E+02
1Y= 22   3.055E+02   3.044E+02   3.024E+02   3.001E+02   2.991E+02   2.987E+02   2.982E+02   2.975E+02   2.978E+02
1Y= 21   3.051E+02   3.046E+02   3.036E+02   3.028E+02   3.028E+02   3.036E+02   3.041E+02   2.995E+02   2.959E+02
1Y= 20   3.047E+02   3.044E+02   3.040E+02   3.037E+02   3.039E+02   3.042E+02   3.045E+02   3.007E+02   2.957E+02
1Y= 19   3.045E+02   3.044E+02   3.043E+02   3.042E+02   3.043E+02   3.044E+02   3.046E+02   3.016E+02   2.955E+02
1Y= 18   3.044E+02   3.043E+02   3.042E+02   3.042E+02   3.043E+02   3.044E+02   3.047E+02   3.019E+02   2.952E+02
1Y= 17   3.044E+02   3.043E+02   3.042E+02   3.042E+02   3.043E+02   3.045E+02   3.048E+02   3.016E+02   2.952E+02
1Y= 16   3.045E+02   3.042E+02   3.041E+02   3.043E+02   3.044E+02   3.046E+02   3.050E+02   3.006E+02   2.951E+02
1Y= 15   3.047E+02   3.042E+02   3.043E+02   3.046E+02   3.049E+02   3.052E+02   3.059E+02   3.035E+02   2.951E+02
1Y= 14   3.050E+02   3.043E+02   3.046E+02   3.052E+02   3.057E+02   3.058E+02   3.061E+02   3.029E+02   2.950E+02
1Y= 13   3.057E+02   3.050E+02   3.057E+02   3.068E+02   3.080E+02   3.079E+02   3.068E+02   3.011E+02   2.950E+02
1Y= 12   3.081E+02   3.079E+02   3.093E+02   3.109E+02   3.134E+02   3.129E+02   3.093E+02   2.998E+02   2.950E+02
1Y= 11   3.159E+02   3.163E+02   3.186E+02   3.205E+02   3.245E+02   3.219E+02   3.143E+02   3.002E+02   2.950E+02
1Y= 10   3.389E+02   3.389E+02   3.408E+02   3.405E+02   3.389E+02   3.308E+02   3.195E+02   3.022E+02   2.950E+02
1Y=  9   3.797E+02   3.759E+02   3.605E+02   3.582E+02   3.494E+02   3.368E+02   3.227E+02   3.036E+02   2.950E+02
1Y=  8   6.642E+02   5.996E+02   5.255E+02   3.747E+02   3.561E+02   3.396E+02   3.236E+02   3.032E+02   2.950E+02
1Y=  7   7.401E+02   6.398E+02   5.219E+02   3.867E+02   3.584E+02   3.385E+02   3.215E+02   3.009E+02   2.950E+02
IY=  6   7.536E+02   6.534E+02   4.970E+02   3.825E+02   3.529E+02   3.329E+02   3.171E+02   2.988E+02   2.950E+02
1Y=  5   7.427E+02   6.715E+02   5.196E+02   3.790E+02   3.438E+02   3.241E+02   3.105E+02   2.971E+02   2.950E+02
1Y=  4   6.908E+02   6.638E+02   5.846E+02   4.016E+02   3.377E+02   3.155E+02   3.031E+02   2.959E+02   2.950E+02
1Y=  3   6.212E+02   5.924E+02   5.218E+02   4.006E+02   3.344E+02   3.111E+02   3.001E+02   2.954E+02   2.950E+02
1Y=  2   5.559E+02   5.283E+02   4.710E+02   3.892E+02   3.293E+02   3.067E+02   2.968E+02   2.953E+02   2.950E+02
1Y=  1   4.545E+02   4.197E+02   3.740E+02   3.301E+02   3.078E+02   3.033E+02   3.020E+02   2.971E+02   2.950E+02
 1X=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
1Y= 23   1.110E+00   1.111E+00   1.113E+00   1.115E+00   1.116E+00   1.117E+00   1.119E+00   1.121E+00   1.122E+00
1Y= 22   1.159E+00   1.164E+00   1.172E+00   1.180E+00   1.185E+00   1.186E+00   1.188E+00   1.191E+00   1.190E+00
1Y= 21   1.161E+00   1.163E+00   1.167E+00   1.170E+00   1.170E+00   1.167E+00   1.165E+00   1.183E+00   1.197E+00
IY= 20   1.163E+00   1.164E+00   1.165E+00   1.167E+00   1.166E+00   1.165E+00   1.164E+00   1.178E+00   1.198E+00
1Y= 19   1.163E+00   1.164E+00   1.164E+00   1.164E+00   1.164E+00   1.164E+00   1.163E+00   1.175E+00   1.199E+00
1Y= 18   1.164E+00   1.164E+00   1.164E+00   1.164E+00   1.164E+00   1.164E+00   1.163E+00   1.173E+00   1.200E+00
1Y= 17   1.164E+00   1.164E+00   1.165E+00   1.165E+00   1.164E+00   1.163E+00   1.162E+00   1.175E+00   1.200E+00
1Y= 16   1.163E+00   1.164E+00   1.165E+00   1.164E+00   1.164E+00   1.163E+00   1.162E+00   1.178E+00   1.201E+00
1Y= 15   1.163E+00   1.164E+00   1.164E+00   1.163E+00   1.162E+00   1.161E+00   1.158E+00   1.167E+00   1.201E+00
1Y= 14   1.161E+00   1.164E+00   1.163E+00   1.161E+00   1.159E+00   1.158E+00   1.157E+00   1.170E+00   1.201E+00
1Y= 13   1.159E+00   1.162E+00   1.159E+00   1.154E+00   1.150E+00   1.150E+00   1.154E+00   1.176E+00   1.201E+00
1Y= 12   1.151E+00   1.152E+00   1.146E+00   1.139E+00   1.130E+00   1.132E+00   1.145E+00   1.181E+00   1.201E+00
1Y= 11   1.123E+00   1.122E+00   1.113E+00   1.104E+00   1.091E+00   1.100E+00   1.127E+00   1.180E+00   1.201E+00
1Y= 10   1.048E+00   1.048E+00   1.043E+00   1.037E+00   1.044E+00   1.070E+00   1.109E+00   1.172E+00   1.201E+00
1Y=  9   9.349E-01   9.444E-01   9.848E-01   9.854E-01   1.012E+00   1.051E+00   1.098E+00   1.167E+00   1.201E+00
1Y=  8   5.328E-01   5.901E-01   6.735E-01   9.430E-01   9.935E-01   1.043E+00   1.095E+00   1.168E+00   1.201E+00
1Y=  7   4.785E-01   5.528E-01   6.766E-01   9.135E-01   9.870E-01   1.046E+00   1.102E+00   1.177E+00   1.201E+00
1Y=  6   4.706E-01   5.418E-01   7.108E-01   9.234E-01   1.002E+00   1.063E+00   1.117E+00   1.185E+00   1.201E+00
1Y=  5   4.780E-01   5.279E-01   6.809E-01   9.324E-01   1.029E+00   1.092E+00   1.140E+00   1.192E+00   1.201E+00
1Y=  4   5.137E-01   5.343E-01   6.065E-01   8.808E-01   1.048E+00   1.122E+00   1.168E+00   1.197E+00   1.201E+00
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IY=  3   5.711E-01   5.983E-01   6.791E-01   8.836E-01   1.059E+00   1.138E+00   1.180E+00   1.199E+00   1.201E+00
IY=  2   6.374E-01   6.703E-01   7.519E-01   9.096E-01   1.075E+00   1.155E+00   1.193E+00   1.199E+00   1.201E+00
IY=  1   7.790E-01   8.435E-01   9.467E-01   1.073E+00   1.150E+00   1.167E+00   1.173E+00   1.192E+00   1.201E+00
 IX=        1           2           3           4           5           6           7           8           9

*************************************************************
TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    42 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 42, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23   5.381E+00   5.073E+00   4.754E+00   4.446E+00   4.244E+00   4.199E+00   4.228E+00   4.216E+00   4.148E+00
IY= 22   5.475E+00   5.044E+00   4.301E+00   3.695E+00   3.374E+00   3.749E+00   4.726E+00   5.576E+00  -1.508E+00
IY= 21   3.541E+00   2.829E+00   1.658E+00   8.489E-01   7.451E-01   1.760E+00   3.645E+00   5.115E+00  -1.071E+00
IY= 20   8.169E-01  -6.516E-02  -1.497E+00  -2.458E+00  -2.525E+00  -1.160E+00   1.377E+00   3.357E+00  -9.435E-01
IY= 19  -3.311E+00  -4.383E+00  -6.029E+00  -6.957E+00  -6.820E+00  -5.173E+00  -2.163E+00   3.546E-01  -8.572E-01
IY= 18  -7.773E+00  -8.892E+00  -1.051E+01  -1.121E+01  -1.099E+01  -9.504E+00  -6.790E+00  -4.203E+00  -8.284E-01
IY= 17  -1.129E+01  -1.265E+01  -1.444E+01  -1.476E+01  -1.380E+01  -1.191E+01  -8.758E+00  -5.339E+00  -8.046E-01
IY= 16  -1.938E+01  -2.117E+01  -2.382E+01  -2.152E+01  -1.795E+01  -1.378E+01  -1.014E+01  -6.495E+00  -7.827E-01
IY= 15  -3.436E+01  -3.775E+01  -4.365E+01  -2.984E+01  -1.753E+01  -1.160E+01  -9.560E+00  -8.185E+00  -7.705E-01
IY= 14  -4.611E+01  -4.964E+01  -5.494E+01  -4.347E+01  -2.293E+01  -1.267E+01  -1.022E+01  -9.319E+00  -7.488E-01
IY= 13  -7.285E+01  -7.636E+01  -8.048E+01  -7.010E+01  -3.705E+01  -1.648E+01  -1.172E+01  -1.051E+01  -7.289E-01
IY= 12  -1.281E+02  -1.377E+02  -1.466E+02  -1.214E+02  -6.114E+01  -2.360E+01  -1.387E+01  -1.167E+01  -7.112E-01
IY= 11  -1.696E+02  -1.752E+02  -1.870E+02  -1.653E+02  -8.634E+01  -3.295E+01  -1.670E+01  -1.284E+01  -6.984E-01
IY= 10  -2.753E+02  -2.817E+02  -2.253E+02  -1.818E+02  -1.016E+02  -4.178E+01  -2.016E+01  -1.423E+01  -6.902E-01
IY=  9  -1.673E+02  -2.529E+02  -2.381E+02  -1.925E+02  -1.142E+02  -5.018E+01  -2.437E+01  -1.610E+01  -6.834E-01
IY=  8  -8.805E+01  -1.553E+02  -1.947E+02  -1.836E+02  -1.179E+02  -5.771E+01  -2.968E+01  -1.907E+01  -6.773E-01
IY=  7   7.848E+01  -4.837E+01  -1.734E+02  -2.104E+02  -1.246E+02  -6.495E+01  -3.634E+01  -2.299E+01  -6.720E-01
IY=  6   1.953E+02   1.561E+01  -1.622E+02  -2.263E+02  -1.279E+02  -6.986E+01  -4.325E+01  -2.678E+01  -6.678E-01
IY=  5   2.391E+02   8.120E+01  -5.265E+01  -1.918E+02  -1.246E+02  -7.325E+01  -4.892E+01  -3.046E+01  -6.635E-01
IY=  4   2.118E+02   1.187E+02   7.327E+01  -8.492E+01  -1.012E+02  -7.126E+01  -5.399E+01  -3.361E+01  -6.595E-01
IY=  3   1.305E+02   5.787E+01   1.544E+01  -7.139E+01  -8.902E+01  -6.837E+01  -5.529E+01  -3.434E+01  -6.580E-01
IY=  2   2.413E+01  -2.183E+01  -4.271E+01  -7.033E+01  -7.967E+01  -6.678E+01  -5.613E+01  -3.585E+01  -6.552E-01
IY=  1  -5.820E+01  -6.741E+01  -7.865E+01  -8.211E+01  -7.783E+01  -6.568E+01  -5.652E+01  -3.684E+01  -6.551E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -4.305E-01  -7.446E-01  -1.058E+00  -1.208E+00  -1.226E+00  -1.010E+00  -5.243E-01  -1.115E-01
IY= 22  -5.910E-01  -1.045E+00  -1.526E+00  -1.787E+00  -1.865E+00  -1.625E+00  -9.845E-01  -4.354E-08
IY= 21  -7.813E-01  -1.376E+00  -1.994E+00  -2.306E+00  -2.360E+00  -2.023E+00  -1.223E+00   1.282E-11
IY= 20  -8.887E-01  -1.551E+00  -2.237E+00  -2.589E+00  -2.668E+00  -2.323E+00  -1.458E+00   8.489E-12
IY= 19  -9.771E-01  -1.706E+00  -2.433E+00  -2.773E+00  -2.849E+00  -2.526E+00  -1.667E+00   5.186E-12
IY= 18  -1.050E+00  -1.801E+00  -2.507E+00  -2.822E+00  -2.904E+00  -2.618E+00  -1.793E+00   1.117E-12
IY= 17  -1.251E+00  -2.116E+00  -2.927E+00  -3.234E+00  -3.118E+00  -2.769E+00  -1.974E+00   4.605E-13
IY= 16  -1.194E+00  -2.120E+00  -3.064E+00  -2.411E+00  -2.144E+00  -2.284E+00  -1.877E+00   1.134E-11
IY= 15  -7.155E-01  -1.264E+00  -1.806E+00   3.898E-01   4.125E-01  -4.314E-01  -1.095E+00  -1.083E-14
IY= 14   1.044E-01   2.093E-02  -8.331E-01  -3.312E-01  -1.240E-01  -5.201E-01  -9.639E-01   4.666E-16
IY= 13   4.346E-01   4.479E-02  -2.174E+00  -1.491E+00  -7.470E-01  -6.890E-01  -9.563E-01   2.041E-15
IY= 12   7.298E-01  -2.335E-01  -3.807E+00  -2.404E+00  -1.326E+00  -1.017E+00  -1.094E+00   5.117E-15
IY= 11  -3.325E-01   2.076E-01  -3.691E+00  -2.804E+00  -1.860E+00  -1.434E+00  -1.328E+00   8.556E-15
IY= 10  -6.175E+00  -7.606E+00  -5.474E+00  -3.873E+00  -2.572E+00  -1.894E+00  -1.594E+00   1.005E-14
IY=  9  -7.610E+00  -9.628E+00  -6.051E+00  -5.192E+00  -3.414E+00  -2.431E+00  -1.911E+00   1.252E-14
IY=  8  -6.489E+00  -7.844E+00  -4.375E+00  -6.576E+00  -4.557E+00  -3.183E+00  -2.336E+00   1.597E-14
IY=  7  -7.933E+00  -1.039E+01  -1.035E+01  -1.032E+01  -6.390E+00  -4.209E+00  -2.888E+00   1.943E-14
IY=  6  -9.420E+00  -1.344E+01  -1.538E+01  -1.331E+01  -8.361E+00  -5.279E+00  -3.409E+00   2.026E-14
IY=  5  -7.881E+00  -1.167E+01  -1.209E+01  -1.307E+01  -9.589E+00  -6.386E+00  -3.936E+00   2.755E-14
IY=  4  -4.139E+00  -6.293E+00  -5.296E+00  -9.356E+00  -9.259E+00  -6.996E+00  -4.382E+00   3.432E-14
IY=  3  -2.578E+00  -4.112E+00  -4.690E+00  -7.829E+00  -8.676E+00  -6.977E+00  -4.540E+00   1.655E-14
IY=  2  -2.156E+00  -3.580E+00  -5.084E+00  -6.901E+00  -8.004E+00  -6.827E+00  -4.638E+00   4.707E-14
IY=  1  -2.784E+00  -4.767E+00  -6.633E+00  -7.682E+00  -7.914E+00  -6.492E+00  -4.580E+00   7.405E-13
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22   2.455E+00   2.693E+00   2.818E+00   2.972E+00   3.157E+00   3.493E+00   3.858E+00   4.023E+00   7.094E-01
IY= 21   1.807E+00   2.223E+00   2.508E+00   2.851E+00   3.178E+00   3.700E+00   4.337E+00   5.235E+00   1.039E+00
IY= 20   8.635E-01   1.315E+00   1.628E+00   2.002E+00   2.387E+00   3.004E+00   3.753E+00   4.703E+00   7.817E-01
IY= 19  -2.335E-01   3.673E-01   7.278E-01   1.125E+00   1.552E+00   2.193E+00   2.929E+00   3.752E+00   6.588E-01
IY= 18  -1.794E+00  -1.213E+00  -7.488E-01  -1.671E-01   3.433E-01   9.921E-01   1.673E+00   2.320E+00   5.602E-01
IY= 17  -2.613E+00  -2.033E+00  -1.521E+00  -8.093E-01  -1.288E-01   6.491E-01   1.307E+00   1.782E+00   5.251E-01
IY= 16  -4.224E+00  -3.527E+00  -2.763E+00  -1.436E+00  -8.450E-02   7.197E-01   1.070E+00   1.369E+00   4.899E-01
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IY= 15  -6.442E+00  -5.645E+00  -4.119E+00   3.451E-01   1.739E+00   1.371E+00   8.900E-01   8.495E-01   4.543E-01
IY= 14  -7.562E+00  -6.730E+00  -4.485E+00   1.302E+00   1.542E+00   9.226E-01   4.941E-01   8.134E-01   4.335E-01
IY= 13  -9.424E+00  -8.859E+00  -5.845E+00   7.184E-01   1.173E+00   4.243E-01  -4.156E-02   5.201E-01   3.918E-01
IY= 12  -1.246E+01  -1.249E+01  -8.510E+00   2.001E-01   8.111E-01  -2.709E-02  -4.872E-01   8.500E-02   3.490E-01
IY= 11  -9.889E+00  -1.302E+01  -8.263E+00  -9.842E-02  -7.355E-03  -7.469E-01  -1.007E+00  -4.283E-01   3.056E-01
IY= 10   1.211E+01  -1.954E+00  -8.295E+00  -1.215E+00  -1.393E+00  -1.730E+00  -1.661E+00  -9.223E-01   2.694E-01
IY=  9   3.080E+01   1.931E+01   1.804E+00  -1.951E+00  -2.425E+00  -2.580E+00  -2.311E+00  -1.351E+00   2.433E-01
IY=  8   4.607E+01   3.724E+01   1.733E+01  -1.114E+00  -3.064E+00  -3.350E+00  -3.002E+00  -1.831E+00   2.192E-01
IY=  7   5.343E+01   4.530E+01   2.476E+01  -3.229E+00  -3.792E+00  -4.007E+00  -3.663E+00  -2.236E+00   1.951E-01
IY=  6   5.481E+01   4.757E+01   2.731E+01  -1.123E+00  -3.392E+00  -4.218E+00  -4.095E+00  -2.363E+00   1.711E-01
IY=  5   4.813E+01   4.296E+01   2.768E+01   4.203E+00  -1.777E+00  -3.775E+00  -4.094E+00  -2.232E+00   1.496E-01
IY=  4   3.077E+01   2.842E+01   2.221E+01   8.851E+00   5.614E-01  -2.622E+00  -3.453E+00  -1.759E+00   1.235E-01
IY=  3   1.698E+01   1.518E+01   1.074E+01   6.420E+00   1.544E+00  -1.507E+00  -2.144E+00  -9.569E-01   9.364E-02
IY=  2   1.181E+01   1.059E+01   7.709E+00   5.046E+00   1.525E+00  -1.131E+00  -1.559E+00  -5.516E-01   7.954E-02
IY=  1   4.652E+00   4.600E+00   3.454E+00   2.091E+00   6.318E-01  -5.571E-01  -3.012E-01   4.437E-02   3.993E-02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23   2.733E-01   1.012E-01  -1.239E-01  -4.006E-01  -6.535E-01  -9.512E-01  -1.248E+00  -1.256E+00  -2.162E-06
IY= 22   1.283E+00   9.908E-01   7.041E-01   3.887E-01   9.563E-02  -2.457E-01  -6.687E-01  -1.469E+00  -4.230E-01
IY= 21   1.570E+00   1.140E+00   7.180E-01   2.472E-01  -1.634E-01  -5.946E-01  -1.103E+00  -2.043E+00   2.229E-02
IY= 20   1.723E+00   1.241E+00   7.722E-01   2.570E-01  -1.889E-01  -6.787E-01  -1.291E+00  -2.289E+00   4.843E-02
IY= 19   1.734E+00   1.143E+00   6.038E-01   6.529E-02  -3.503E-01  -8.162E-01  -1.462E+00  -2.413E+00   5.262E-02
IY= 18   1.527E+00   8.177E-01   2.170E-01  -2.486E-01  -4.514E-01  -7.344E-01  -1.390E+00  -2.231E+00   6.496E-02
IY= 17   1.085E+00   3.069E-01  -1.613E-01  -2.439E-01  -8.410E-02  -3.269E-01  -1.206E+00  -2.183E+00   7.051E-02
IY= 16   2.476E-01  -2.669E-01  -8.293E-02   1.025E+00   1.794E+00   9.136E-01  -6.854E-01  -2.090E+00   7.656E-02
IY= 15  -5.624E-01  -8.874E-01   1.171E-01   4.570E+00   5.156E+00   3.143E+00   4.578E-01  -2.060E+00   8.265E-02
IY= 14  -2.125E+00  -1.950E+00  -2.865E-02   5.390E+00   6.067E+00   3.721E+00   7.261E-01  -2.030E+00   8.607E-02
IY= 13  -4.077E+00  -2.739E+00   8.024E-01   6.537E+00   8.356E+00   5.370E+00   1.756E+00  -1.721E+00   9.216E-02
IY= 12  -4.635E+00  -2.644E+00   1.477E+00   8.640E+00   1.164E+01   7.806E+00   3.252E+00  -1.242E+00   9.740E-02
IY= 11   2.103E+01   7.796E+00   2.815E+00   1.185E+01   1.561E+01   1.077E+01   5.090E+00  -5.729E-01   1.017E-01
IY= 10   5.215E+01   3.567E+01   1.163E+01   1.668E+01   1.884E+01   1.309E+01   6.531E+00  -1.506E-01   1.047E-01
IY=  9   9.930E+01   7.619E+01   3.844E+01   1.733E+01   2.068E+01   1.457E+01   7.432E+00   3.495E-02   1.065E-01
IY=  8   1.576E+02   1.286E+02   7.316E+01   2.588E+01   2.195E+01   1.517E+01   7.681E+00   6.147E-02   1.078E-01
IY=  7   2.164E+02   1.750E+02   9.684E+01   2.997E+01   2.127E+01   1.431E+01   7.016E+00  -1.215E-01   1.088E-01
IY=  6   2.813E+02   2.283E+02   1.282E+02   3.819E+01   1.942E+01   1.201E+01   5.661E+00  -3.313E-01   1.093E-01
IY=  5   3.282E+02   2.791E+02   1.723E+02   5.429E+01   1.872E+01   9.198E+00   3.661E+00  -5.368E-01   1.094E-01
IY=  4   2.837E+02   2.627E+02   2.029E+02   7.433E+01   2.018E+01   6.715E+00   1.755E+00  -7.286E-01   1.089E-01
IY=  3   2.116E+02   1.918E+02   1.444E+02   6.371E+01   1.854E+01   5.210E+00   7.388E-01  -9.216E-01   1.073E-01
IY=  2   1.446E+02   1.281E+02   9.477E+01   4.848E+01   1.523E+01   3.213E+00  -1.371E+00  -2.033E+00   1.065E-01
IY=  1   7.581E+01   5.364E+01   3.214E+01   1.269E+01   3.367E+00  -1.439E+00  -4.832E+00  -3.606E+00   9.870E-02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   9.968E-01   9.459E-01   9.156E-01   9.972E-01   1.148E+00   1.445E+00   2.175E+00   4.698E+00   1.103E+01
IY= 22   2.981E-02   3.977E-02   5.063E-02   6.358E-02   7.461E-02   8.784E-02   1.004E-01   1.219E-01   6.904E-03
IY= 21   1.557E-02   2.648E-02   4.196E-02   5.988E-02   7.367E-02   8.813E-02   1.029E-01   1.432E-01   6.148E-03
IY= 20   6.349E-03   1.440E-02   3.029E-02   4.811E-02   6.134E-02   7.263E-02   8.156E-02   1.127E-01   4.044E-03
IY= 19   1.312E-02   1.310E-02   2.643E-02   4.136E-02   5.093E-02   5.596E-02   5.560E-02   7.071E-02   3.002E-03
IY= 18   3.568E-02   2.856E-02   3.552E-02   4.316E-02   4.780E-02   4.827E-02   4.178E-02   4.222E-02   2.452E-03
IY= 17   7.401E-02   6.016E-02   6.216E-02   6.114E-02   5.773E-02   5.267E-02   4.152E-02   3.261E-02   2.184E-03
IY= 16   1.557E-01   1.264E-01   1.007E-01   4.558E-02   3.521E-02   3.588E-02   3.201E-02   2.414E-02   1.930E-03
IY= 15   2.477E-01   2.001E-01   1.121E-01   1.881E+01   2.466E+01   2.073E+01   1.040E+01   3.066E-02   1.741E-03
IY= 14   3.499E-01   2.988E-01   1.412E-01   1.791E+01   2.779E+01   2.398E+01   1.284E+01   2.856E-02   1.539E-03
IY= 13   5.584E-01   5.330E-01   2.619E-01   1.460E+01   4.287E+01   3.735E+01   2.024E+01   1.982E-02   1.289E-03
IY= 12   1.407E+01   6.698E+00   1.584E+01   2.422E+01   6.991E+01   5.894E+01   3.245E+01   1.087E-02   1.056E-03
IY= 11   2.931E+02   7.649E+01   2.757E+01   3.016E+01   1.015E+02   8.602E+01   4.829E+01   5.789E-03   8.632E-04
IY= 10   7.750E+02   5.600E+02   8.794E+01   3.988E+01   1.235E+02   1.066E+02   6.129E+01   9.231E-03   7.268E-04
IY=  9   1.415E+03   1.061E+03   4.963E+02   7.172E+01   1.363E+02   1.194E+02   6.979E+01   1.672E-02   6.258E-04
IY=  8   2.552E+03   2.100E+03   1.198E+03   2.296E+02   1.556E+02   1.275E+02   7.346E+01   2.611E-02   5.367E-04
IY=  7   3.754E+03   3.265E+03   2.099E+03   6.094E+02   1.921E+02   1.295E+02   6.967E+01   3.271E-02   4.557E-04
IY=  6   4.719E+03   4.622E+03   3.733E+03   1.365E+03   2.789E+02   1.277E+02   5.883E+01   3.320E-02   3.863E-04
IY=  5   4.735E+03   5.083E+03   5.089E+03   2.509E+03   4.700E+02   1.350E+02   4.159E+01   2.687E-02   3.216E-04
IY=  4   6.122E+03   5.605E+03   5.027E+03   3.328E+03   6.969E+02   1.504E+02   3.203E+01   1.577E-02   2.559E-04
IY=  3   6.040E+03   5.658E+03   4.702E+03   2.464E+03   6.182E+02   1.401E+02   2.597E+01   9.888E-03   2.110E-04
IY=  2   4.554E+03   4.216E+03   3.290E+03   1.608E+03   4.616E+02   1.151E+02   1.091E+01   2.646E-02   1.703E-04
IY=  1   2.037E+01   1.074E+01   4.256E+00   9.579E-01   3.549E-01   2.717E-01   2.719E-01   8.740E-02   1.338E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   7.554E-01   6.361E-01   5.609E-01   6.124E-01   7.483E-01   1.060E+00   1.849E+00   5.329E+00   1.671E+01
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IY= 22   6.343E-03   9.775E-03   1.404E-02   1.976E-02   2.511E-02   3.208E-02   3.920E-02   5.545E-02   8.270E-04
IY= 21   2.393E-03   5.310E-03   1.059E-02   1.806E-02   2.464E-02   3.224E-02   4.067E-02   7.057E-02   6.949E-04
IY= 20   6.234E-04   2.129E-03   6.496E-03   1.300E-02   1.872E-02   2.412E-02   2.870E-02   4.926E-02   3.707E-04
IY= 19   1.852E-03   1.848E-03   5.294E-03   1.037E-02   1.416E-02   1.631E-02   1.616E-02   2.450E-02   2.372E-04
IY= 18   8.306E-03   5.949E-03   8.250E-03   1.105E-02   1.288E-02   1.307E-02   1.053E-02   1.130E-02   1.750E-04
IY= 17   2.481E-02   1.818E-02   1.910E-02   1.863E-02   1.710E-02   1.490E-02   1.043E-02   7.672E-03   1.471E-04
IY= 16   7.572E-02   5.536E-02   3.940E-02   1.199E-02   8.142E-03   8.376E-03   7.059E-03   4.887E-03   1.223E-04
IY= 15   1.519E-01   1.103E-01   4.626E-02   7.680E+01   8.839E+01   6.123E+01   2.174E+01   7.372E-03   1.047E-04
IY= 14   2.551E-01   2.013E-01   6.539E-02   7.289E+01   1.074E+02   7.441E+01   2.813E+01   6.629E-03   8.706E-05
IY= 13   5.142E-01   4.796E-01   1.652E-01   5.767E+01   2.029E+02   1.429E+02   5.589E+01   3.833E-03   6.671E-05
IY= 12   1.962E+02   4.391E+01   8.593E+01   1.198E+02   3.998E+02   2.755E+02   1.114E+02   1.556E-03   4.950E-05
IY= 11   9.729E+03   1.413E+03   2.075E+02   1.719E+02   6.975E+02   4.827E+02   2.021E+02   6.050E-04   3.656E-05
IY= 10   3.476E+04   2.220E+04   1.932E+03   2.530E+02   9.369E+02   6.706E+02   2.926E+02   1.218E-03   2.825E-05
IY=  9   7.770E+04   5.397E+04   2.065E+04   6.140E+02   1.064E+03   7.929E+02   3.563E+02   2.969E-03   2.257E-05
IY=  8   1.546E+05   1.230E+05   6.176E+04   3.777E+03   1.241E+03   8.626E+02   3.835E+02   5.796E-03   1.792E-05
IY=  7   2.397E+05   2.095E+05   1.256E+05   1.291E+04   1.542E+03   8.620E+02   3.546E+02   8.126E-03   1.402E-05
IY=  6   3.003E+05   3.152E+05   2.559E+05   4.535E+04   2.410E+03   7.654E+02   2.865E+02   8.308E-03   1.095E-05
IY=  5   2.573E+05   3.252E+05   3.839E+05   1.182E+05   5.147E+03   6.256E+02   1.835E+02   6.049E-03   8.315E-06
IY=  4   3.225E+05   3.026E+05   3.150E+05   1.819E+05   1.312E+04   5.792E+02   9.534E+01   2.721E-03   5.902E-06
IY=  3   3.460E+05   3.316E+05   2.803E+05   1.067E+05   1.095E+04   5.164E+02   6.335E+01   1.350E-03   4.420E-06
IY=  2   2.322E+05   2.117E+05   1.513E+05   5.140E+04   6.837E+03   3.798E+02   2.421E+01   5.912E-03   3.204E-06
IY=  1   1.236E+02   4.732E+01   1.180E+01   1.260E+00   2.841E-01   1.904E-01   1.906E-01   3.511E-02   2.232E-06
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF HI
IY= 23   3.250E+05   3.255E+05   3.261E+05   3.268E+05   3.273E+05   3.275E+05   3.271E+05   3.251E+05   3.198E+05
IY= 22   3.282E+05   3.284E+05   3.286E+05   3.287E+05   3.289E+05   3.291E+05   3.293E+05   3.295E+05   2.974E+05
IY= 21   3.271E+05   3.273E+05   3.274E+05   3.277E+05   3.279E+05   3.281E+05   3.284E+05   3.287E+05   2.975E+05
IY= 20   3.260E+05   3.260E+05   3.261E+05   3.263E+05   3.265E+05   3.267E+05   3.269E+05   3.267E+05   2.970E+05
IY= 19   3.243E+05   3.244E+05   3.245E+05   3.246E+05   3.246E+05   3.245E+05   3.242E+05   3.231E+05   2.966E+05
IY= 18   3.228E+05   3.217E+05   3.210E+05   3.204E+05   3.199E+05   3.194E+05   3.190E+05   3.163E+05   2.962E+05
IY= 17   3.210E+05   3.195E+05   3.186E+05   3.175E+05   3.167E+05   3.164E+05   3.169E+05   3.149E+05   2.962E+05
IY= 16   3.195E+05   3.170E+05   3.149E+05   3.125E+05   3.113E+05   3.126E+05   3.143E+05   3.133E+05   2.962E+05
IY= 15   3.191E+05   3.162E+05   3.134E+05   3.091E+05   3.096E+05   3.105E+05   3.124E+05   3.114E+05   2.962E+05
IY= 14   3.188E+05   3.162E+05   3.124E+05   3.094E+05   3.104E+05   3.108E+05   3.120E+05   3.105E+05   2.962E+05
IY= 13   3.187E+05   3.161E+05   3.122E+05   3.115E+05   3.129E+05   3.120E+05   3.109E+05   3.083E+05   2.962E+05
IY= 12   3.171E+05   3.160E+05   3.138E+05   3.151E+05   3.170E+05   3.145E+05   3.106E+05   3.057E+05   2.962E+05
IY= 11   3.303E+05   3.180E+05   3.156E+05   3.226E+05   3.239E+05   3.185E+05   3.114E+05   3.029E+05   2.962E+05
IY= 10   3.951E+05   3.471E+05   3.237E+05   3.391E+05   3.320E+05   3.220E+05   3.121E+05   3.011E+05   2.962E+05
IY=  9   6.020E+05   4.913E+05   4.030E+05   3.550E+05   3.386E+05   3.241E+05   3.120E+05   2.997E+05   2.962E+05
IY=  8   6.764E+05   6.045E+05   5.044E+05   3.739E+05   3.432E+05   3.246E+05   3.110E+05   2.985E+05   2.962E+05
IY=  7   7.083E+05   6.200E+05   4.915E+05   3.769E+05   3.440E+05   3.229E+05   3.087E+05   2.978E+05   2.962E+05
IY=  6   7.068E+05   6.222E+05   4.867E+05   3.767E+05   3.409E+05   3.197E+05   3.061E+05   2.975E+05   2.962E+05
IY=  5   6.924E+05   6.305E+05   5.120E+05   3.858E+05   3.378E+05   3.159E+05   3.029E+05   2.973E+05   2.962E+05
IY=  4   6.472E+05   6.161E+05   5.400E+05   4.082E+05   3.369E+05   3.129E+05   3.020E+05   2.973E+05   2.962E+05
IY=  3   5.900E+05   5.625E+05   5.003E+05   4.012E+05   3.346E+05   3.120E+05   3.023E+05   2.975E+05   2.962E+05
IY=  2   5.356E+05   5.105E+05   4.596E+05   3.870E+05   3.307E+05   3.117E+05   3.043E+05   3.012E+05   2.962E+05
IY=  1   4.574E+05   4.145E+05   3.679E+05   3.296E+05   3.179E+05   3.186E+05   3.194E+05   3.082E+05   2.962E+05
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.184E-01   1.266E-01   1.345E-01   1.461E-01   1.586E-01   1.773E-01   2.302E-01   3.728E-01   6.556E-01
IY= 22   1.261E-02   1.457E-02   1.643E-02   1.842E-02   1.995E-02   2.165E-02   2.314E-02   2.412E-02   5.188E-03
IY= 21   9.113E-03   1.189E-02   1.496E-02   1.787E-02   1.982E-02   2.168E-02   2.343E-02   2.614E-02   4.895E-03
IY= 20   5.820E-03   8.764E-03   1.271E-02   1.602E-02   1.809E-02   1.968E-02   2.086E-02   2.319E-02   3.970E-03
IY= 19   8.366E-03   8.360E-03   1.187E-02   1.485E-02   1.648E-02   1.728E-02   1.722E-02   1.837E-02   3.421E-03
IY= 18   1.380E-02   1.234E-02   1.377E-02   1.517E-02   1.597E-02   1.605E-02   1.493E-02   1.419E-02   3.092E-03
IY= 17   1.987E-02   1.791E-02   1.821E-02   1.806E-02   1.755E-02   1.676E-02   1.488E-02   1.247E-02   2.918E-03
IY= 16   2.882E-02   2.596E-02   2.318E-02   1.559E-02   1.371E-02   1.383E-02   1.307E-02   1.073E-02   2.743E-03
IY= 15   3.635E-02   3.267E-02   2.446E-02   4.146E-01   6.191E-01   6.319E-01   4.476E-01   1.147E-02   2.605E-03
IY= 14   4.320E-02   3.993E-02   2.745E-02   3.962E-01   6.475E-01   6.957E-01   5.273E-01   1.107E-02   2.449E-03
IY= 13   5.458E-02   5.332E-02   3.738E-02   3.327E-01   8.153E-01   8.781E-01   6.599E-01   9.226E-03   2.241E-03
IY= 12   9.080E-02   9.196E-02   2.628E-01   4.406E-01   1.100E+00   1.135E+00   8.509E-01   6.831E-03   2.029E-03
IY= 11   7.946E-01   3.725E-01   3.296E-01   4.762E-01   1.329E+00   1.380E+00   1.039E+00   4.986E-03   1.834E-03
IY= 10   1.555E+00   1.271E+00   3.602E-01   5.658E-01   1.466E+00   1.524E+00   1.155E+00   6.296E-03   1.683E-03
IY=  9   2.318E+00   1.878E+00   1.074E+00   7.540E-01   1.571E+00   1.619E+00   1.230E+00   8.473E-03   1.562E-03
IY=  8   3.793E+00   3.228E+00   2.093E+00   1.256E+00   1.756E+00   1.696E+00   1.267E+00   1.059E-02   1.446E-03
IY=  7   5.292E+00   4.580E+00   3.158E+00   2.589E+00   2.154E+00   1.752E+00   1.232E+00   1.185E-02   1.333E-03
IY=  6   6.675E+00   6.100E+00   4.901E+00   3.695E+00   2.906E+00   1.919E+00   1.087E+00   1.194E-02   1.227E-03
IY=  5   7.841E+00   7.150E+00   6.071E+00   4.794E+00   3.862E+00   2.623E+00   8.484E-01   1.074E-02   1.120E-03
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IY=  4   1.046E+01   9.345E+00   7.220E+00   5.479E+00   3.331E+00   3.516E+00   9.687E-01   8.230E-03   9.988E-04
IY=  3   9.491E+00   8.690E+00   7.099E+00   5.120E+00   3.142E+00   3.419E+00   9.580E-01   6.516E-03   9.070E-04
IY=  2   8.037E+00   7.555E+00   6.437E+00   4.529E+00   2.804E+00   3.141E+00   4.428E-01   1.066E-02   8.148E-04
IY=  1   3.022E-01   2.195E-01   1.381E-01   6.553E-02   3.989E-02   3.491E-02   3.492E-02   1.958E-02   7.222E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.237E+02   3.242E+02   3.248E+02   3.255E+02   3.260E+02   3.262E+02   3.258E+02   3.238E+02   3.185E+02
IY= 22   3.269E+02   3.271E+02   3.273E+02   3.274E+02   3.276E+02   3.278E+02   3.279E+02   3.282E+02   2.962E+02
IY= 21   3.258E+02   3.260E+02   3.261E+02   3.263E+02   3.266E+02   3.268E+02   3.271E+02   3.273E+02   2.963E+02
IY= 20   3.247E+02   3.247E+02   3.248E+02   3.250E+02   3.252E+02   3.254E+02   3.256E+02   3.254E+02   2.958E+02
IY= 19   3.230E+02   3.231E+02   3.232E+02   3.233E+02   3.233E+02   3.232E+02   3.230E+02   3.218E+02   2.954E+02
IY= 18   3.215E+02   3.204E+02   3.198E+02   3.191E+02   3.186E+02   3.181E+02   3.177E+02   3.151E+02   2.950E+02
IY= 17   3.198E+02   3.182E+02   3.173E+02   3.162E+02   3.155E+02   3.152E+02   3.156E+02   3.136E+02   2.950E+02
IY= 16   3.182E+02   3.157E+02   3.137E+02   3.113E+02   3.100E+02   3.114E+02   3.130E+02   3.120E+02   2.950E+02
IY= 15   3.178E+02   3.150E+02   3.121E+02   3.079E+02   3.084E+02   3.092E+02   3.112E+02   3.102E+02   2.950E+02
IY= 14   3.176E+02   3.149E+02   3.112E+02   3.081E+02   3.091E+02   3.095E+02   3.107E+02   3.092E+02   2.950E+02
IY= 13   3.174E+02   3.149E+02   3.109E+02   3.103E+02   3.116E+02   3.107E+02   3.097E+02   3.071E+02   2.950E+02
IY= 12   3.158E+02   3.147E+02   3.126E+02   3.138E+02   3.157E+02   3.132E+02   3.094E+02   3.044E+02   2.950E+02
IY= 11   3.289E+02   3.168E+02   3.143E+02   3.213E+02   3.226E+02   3.172E+02   3.102E+02   3.017E+02   2.950E+02
IY= 10   3.935E+02   3.458E+02   3.224E+02   3.377E+02   3.307E+02   3.208E+02   3.108E+02   2.999E+02   2.950E+02
IY=  9   5.996E+02   4.893E+02   4.014E+02   3.536E+02   3.373E+02   3.228E+02   3.107E+02   2.985E+02   2.950E+02
IY=  8   6.737E+02   6.021E+02   5.024E+02   3.725E+02   3.418E+02   3.233E+02   3.097E+02   2.973E+02   2.950E+02
IY=  7   7.055E+02   6.176E+02   4.896E+02   3.754E+02   3.426E+02   3.216E+02   3.075E+02   2.966E+02   2.950E+02
IY=  6   7.040E+02   6.197E+02   4.847E+02   3.752E+02   3.396E+02   3.184E+02   3.049E+02   2.963E+02   2.950E+02
IY=  5   6.896E+02   6.280E+02   5.100E+02   3.843E+02   3.365E+02   3.147E+02   3.017E+02   2.962E+02   2.950E+02
IY=  4   6.447E+02   6.136E+02   5.379E+02   4.066E+02   3.356E+02   3.117E+02   3.008E+02   2.961E+02   2.950E+02
IY=  3   5.877E+02   5.603E+02   4.983E+02   3.996E+02   3.333E+02   3.107E+02   3.011E+02   2.963E+02   2.950E+02
IY=  2   5.334E+02   5.085E+02   4.578E+02   3.854E+02   3.294E+02   3.105E+02   3.031E+02   3.000E+02   2.950E+02
IY=  1   4.556E+02   4.128E+02   3.665E+02   3.282E+02   3.167E+02   3.173E+02   3.181E+02   3.069E+02   2.950E+02
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.094E+00   1.093E+00   1.091E+00   1.089E+00   1.087E+00   1.086E+00   1.087E+00   1.094E+00   1.112E+00
IY= 22   1.084E+00   1.083E+00   1.083E+00   1.082E+00   1.082E+00   1.081E+00   1.080E+00   1.080E+00   1.196E+00
IY= 21   1.087E+00   1.087E+00   1.086E+00   1.086E+00   1.085E+00   1.084E+00   1.083E+00   1.082E+00   1.196E+00
IY= 20   1.091E+00   1.091E+00   1.091E+00   1.090E+00   1.089E+00   1.089E+00   1.088E+00   1.089E+00   1.198E+00
IY= 19   1.097E+00   1.097E+00   1.096E+00   1.096E+00   1.096E+00   1.096E+00   1.097E+00   1.101E+00   1.199E+00
IY= 18   1.102E+00   1.106E+00   1.108E+00   1.110E+00   1.112E+00   1.114E+00   1.115E+00   1.124E+00   1.201E+00
IY= 17   1.108E+00   1.113E+00   1.116E+00   1.120E+00   1.123E+00   1.124E+00   1.122E+00   1.130E+00   1.201E+00
IY= 16   1.113E+00   1.122E+00   1.129E+00   1.138E+00   1.143E+00   1.138E+00   1.132E+00   1.135E+00   1.201E+00
IY= 15   1.114E+00   1.124E+00   1.135E+00   1.150E+00   1.149E+00   1.146E+00   1.138E+00   1.142E+00   1.201E+00
IY= 14   1.115E+00   1.124E+00   1.138E+00   1.149E+00   1.146E+00   1.144E+00   1.140E+00   1.146E+00   1.201E+00
IY= 13   1.115E+00   1.124E+00   1.139E+00   1.141E+00   1.136E+00   1.140E+00   1.144E+00   1.153E+00   1.201E+00
IY= 12   1.120E+00   1.124E+00   1.132E+00   1.128E+00   1.121E+00   1.131E+00   1.145E+00   1.164E+00   1.201E+00
IY= 11   1.075E+00   1.117E+00   1.125E+00   1.101E+00   1.097E+00   1.116E+00   1.142E+00   1.174E+00   1.201E+00
IY= 10   8.979E-01   1.022E+00   1.096E+00   1.047E+00   1.070E+00   1.104E+00   1.140E+00   1.181E+00   1.201E+00
IY=  9   5.899E-01   7.223E-01   8.806E-01   1.000E+00   1.049E+00   1.097E+00   1.140E+00   1.187E+00   1.201E+00
IY=  8   5.254E-01   5.875E-01   7.039E-01   9.495E-01   1.035E+00   1.095E+00   1.144E+00   1.192E+00   1.201E+00
IY=  7   5.026E-01   5.734E-01   7.224E-01   9.417E-01   1.033E+00   1.101E+00   1.152E+00   1.194E+00   1.201E+00
IY=  6   5.042E-01   5.718E-01   7.297E-01   9.423E-01   1.042E+00   1.112E+00   1.162E+00   1.195E+00   1.201E+00
IY=  5   5.149E-01   5.646E-01   6.943E-01   9.202E-01   1.052E+00   1.125E+00   1.174E+00   1.196E+00   1.201E+00
IY=  4   5.507E-01   5.780E-01   6.591E-01   8.706E-01   1.055E+00   1.136E+00   1.177E+00   1.196E+00   1.201E+00
IY=  3   6.037E-01   6.327E-01   7.111E-01   8.860E-01   1.062E+00   1.139E+00   1.176E+00   1.195E+00   1.201E+00
IY=  2   6.643E-01   6.966E-01   7.736E-01   9.185E-01   1.075E+00   1.140E+00   1.168E+00   1.180E+00   1.201E+00
IY=  1   7.772E-01   8.576E-01   9.660E-01   1.078E+00   1.118E+00   1.116E+00   1.113E+00   1.154E+00   1.201E+00
 IX=         1           2           3           4           5           6           7           8           9

******************************************************************
TIME STP=      1 SWEEP NO=     70 ZSLAB NO=     44 ITERN NO=      1


FLOW FIELD AT ITHYD=  1, IZ= 44, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23   5.588E+00   5.485E+00   5.329E+00   5.146E+00   5.061E+00   5.221E+00   5.719E+00   5.967E+00   5.735E+00
IY= 22   3.387E+00   3.171E+00   2.855E+00   2.518E+00   2.314E+00   2.393E+00   2.811E+00   3.281E+00  -1.305E+00
IY= 21   1.271E-01  -2.154E-01  -6.450E-01  -9.796E-01  -8.761E-01  -2.333E-01   7.510E-01   1.527E+00  -1.051E+00
IY= 20  -3.337E+00  -3.750E+00  -4.250E+00  -4.652E+00  -4.557E+00  -3.838E+00  -2.515E+00  -1.309E+00  -9.342E-01
IY= 19  -7.712E+00  -8.135E+00  -8.585E+00  -8.900E+00  -8.711E+00  -7.957E+00  -6.404E+00  -4.486E+00  -8.477E-01
IY= 18  -1.114E+01  -1.149E+01  -1.162E+01  -1.152E+01  -1.147E+01  -1.140E+01  -1.061E+01  -8.681E+00  -8.168E-01
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IY= 17  -1.273E+01  -1.315E+01  -1.319E+01  -1.292E+01  -1.293E+01  -1.314E+01  -1.240E+01  -9.486E+00  -7.932E-01
IY= 16  -1.501E+01  -1.572E+01  -1.572E+01  -1.508E+01  -1.443E+01  -1.460E+01  -1.384E+01  -1.052E+01  -7.716E-01
IY= 15  -1.917E+01  -2.008E+01  -2.006E+01  -1.810E+01  -1.579E+01  -1.484E+01  -1.452E+01  -1.153E+01  -7.596E-01
IY= 14  -2.453E+01  -2.622E+01  -2.690E+01  -2.425E+01  -1.946E+01  -1.624E+01  -1.499E+01  -1.193E+01  -7.390E-01
IY= 13  -3.608E+01  -3.993E+01  -4.029E+01  -3.550E+01  -2.610E+01  -1.920E+01  -1.653E+01  -1.321E+01  -7.198E-01
IY= 12  -5.151E+01  -6.243E+01  -6.134E+01  -5.220E+01  -3.582E+01  -2.362E+01  -1.850E+01  -1.459E+01  -7.026E-01
IY= 11  -4.176E+01  -6.473E+01  -7.540E+01  -6.834E+01  -4.638E+01  -2.896E+01  -2.089E+01  -1.622E+01  -6.901E-01
IY= 10   1.959E+00  -4.916E+01  -8.560E+01  -7.896E+01  -5.559E+01  -3.465E+01  -2.376E+01  -1.804E+01  -6.820E-01
IY=  9   5.635E+01  -1.081E+01  -7.096E+01  -8.808E+01  -6.449E+01  -4.097E+01  -2.746E+01  -2.000E+01  -6.753E-01
IY=  8   1.008E+02   8.163E+00  -6.899E+01  -1.036E+02  -7.605E+01  -4.849E+01  -3.253E+01  -2.251E+01  -6.695E-01
IY=  7   1.413E+02   1.976E+01  -7.213E+01  -1.258E+02  -9.156E+01  -5.717E+01  -3.906E+01  -2.555E+01  -6.643E-01
IY=  6   2.100E+02   6.473E+01  -4.717E+01  -1.281E+02  -1.020E+02  -6.635E+01  -4.581E+01  -2.861E+01  -6.603E-01
IY=  5   2.518E+02   1.139E+02   4.046E+00  -9.942E+01  -1.049E+02  -7.403E+01  -5.289E+01  -3.156E+01  -6.562E-01
IY=  4   1.917E+02   1.099E+02   5.241E+01  -5.924E+01  -9.910E+01  -7.889E+01  -5.871E+01  -3.400E+01  -6.524E-01
IY=  3   1.162E+02   5.343E+01   5.777E+00  -6.959E+01  -1.001E+02  -8.166E+01  -6.117E+01  -3.456E+01  -6.509E-01
IY=  2   2.043E+01  -2.149E+01  -5.083E+01  -8.681E+01  -1.023E+02  -8.556E+01  -6.306E+01  -3.555E+01  -6.482E-01
IY=  1  -6.607E+01  -8.112E+01  -9.934E+01  -1.109E+02  -1.074E+02  -9.114E+01  -6.841E+01  -3.643E+01  -6.480E-01
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23  -1.425E-02  -6.714E-02  -2.139E-01  -3.971E-01  -5.903E-01  -5.882E-01  -2.414E-01   6.095E-02
IY= 22  -7.566E-02  -1.649E-01  -3.007E-01  -4.294E-01  -4.969E-01  -4.003E-01  -1.572E-01   2.960E-08
IY= 21  -1.167E-01  -2.639E-01  -4.805E-01  -6.336E-01  -6.184E-01  -4.419E-01  -1.738E-01   1.055E-11
IY= 20  -1.301E-01  -2.814E-01  -4.930E-01  -6.401E-01  -6.618E-01  -5.601E-01  -3.619E-01   9.683E-12
IY= 19  -1.016E-01  -2.496E-01  -4.583E-01  -5.860E-01  -6.334E-01  -6.610E-01  -5.829E-01   1.422E-10
IY= 18  -1.846E-01  -4.202E-01  -6.856E-01  -7.762E-01  -8.020E-01  -8.851E-01  -8.462E-01   8.483E-10
IY= 17  -3.343E-01  -6.984E-01  -1.085E+00  -1.210E+00  -1.166E+00  -1.207E+00  -1.131E+00   1.610E-10
IY= 16  -6.202E-01  -1.218E+00  -1.850E+00  -1.856E+00  -1.506E+00  -1.448E+00  -1.291E+00   6.135E-11
IY= 15  -8.069E-01  -1.556E+00  -2.331E+00  -1.912E+00  -1.519E+00  -1.529E+00  -1.377E+00   5.563E-12
IY= 14  -1.123E+00  -2.025E+00  -2.900E+00  -2.605E+00  -2.033E+00  -1.801E+00  -1.471E+00   2.109E-13
IY= 13  -1.672E+00  -3.104E+00  -4.170E+00  -3.913E+00  -2.896E+00  -2.244E+00  -1.655E+00   6.370E-15
IY= 12  -2.237E+00  -4.421E+00  -5.847E+00  -5.242E+00  -3.764E+00  -2.743E+00  -1.875E+00   9.787E-15
IY= 11  -1.439E+00  -3.213E+00  -6.152E+00  -6.020E+00  -4.433E+00  -3.213E+00  -2.108E+00   1.601E-14
IY= 10  -2.974E+00  -4.153E+00  -6.226E+00  -6.614E+00  -5.032E+00  -3.663E+00  -2.329E+00   1.923E-14
IY=  9  -3.388E+00  -4.546E+00  -5.747E+00  -7.371E+00  -5.770E+00  -4.155E+00  -2.584E+00   2.591E-14
IY=  8  -3.634E+00  -5.062E+00  -6.308E+00  -8.501E+00  -6.796E+00  -4.780E+00  -2.946E+00   3.554E-14
IY=  7  -4.815E+00  -6.890E+00  -8.511E+00  -1.013E+01  -8.066E+00  -5.625E+00  -3.425E+00   4.595E-14
IY=  6  -5.468E+00  -7.836E+00  -9.184E+00  -1.064E+01  -8.961E+00  -6.524E+00  -3.943E+00   4.945E-14
IY=  5  -4.484E+00  -6.538E+00  -7.338E+00  -9.495E+00  -9.332E+00  -7.236E+00  -4.517E+00   6.571E-14
IY=  4  -2.628E+00  -3.935E+00  -3.979E+00  -7.037E+00  -9.077E+00  -7.627E+00  -5.062E+00   7.804E-14
IY=  3  -1.769E+00  -2.894E+00  -3.770E+00  -6.478E+00  -8.905E+00  -7.793E+00  -5.231E+00   3.670E-14
IY=  2  -1.528E+00  -2.652E+00  -4.207E+00  -6.400E+00  -8.739E+00  -7.923E+00  -5.348E+00   1.031E-13
IY=  1  -2.027E+00  -4.003E+00  -6.346E+00  -8.088E+00  -8.126E+00  -6.112E+00  -4.154E+00   5.760E-11
 IX=        1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22   1.474E+00   1.314E+00   1.047E+00   8.755E-01   9.729E-01   1.539E+00   2.554E+00   3.802E+00   2.859E-01
IY= 21   1.037E+00   9.759E-01   8.032E-01   7.330E-01   9.998E-01   1.942E+00   3.466E+00   5.808E+00   8.688E-01
IY= 20   1.012E-02  -6.682E-02  -2.145E-01  -1.089E-01   4.885E-01   1.865E+00   3.697E+00   5.962E+00   7.474E-01
IY= 19  -1.169E+00  -1.119E+00  -1.091E+00  -7.275E-01   1.227E-01   1.653E+00   3.562E+00   5.490E+00   6.357E-01
IY= 18  -2.225E+00  -2.029E+00  -1.730E+00  -1.093E+00  -1.619E-01   1.204E+00   2.984E+00   4.491E+00   5.353E-01
IY= 17  -2.609E+00  -2.320E+00  -1.825E+00  -9.672E-01   3.754E-02   1.245E+00   2.776E+00   3.900E+00   4.996E-01
IY= 16  -3.080E+00  -2.661E+00  -1.916E+00  -7.623E-01   3.616E-01   1.334E+00   2.534E+00   3.456E+00   4.648E-01
IY= 15  -3.871E+00  -3.329E+00  -2.334E+00  -7.048E-01   5.148E-01   1.199E+00   2.189E+00   3.016E+00   4.302E-01
IY= 14  -4.437E+00  -3.798E+00  -2.717E+00  -8.757E-01   1.460E-01   7.278E-01   1.754E+00   2.723E+00   4.102E-01
IY= 13  -5.578E+00  -4.781E+00  -3.438E+00  -1.458E+00  -4.619E-01  -1.847E-02   9.750E-01   2.159E+00   3.703E-01
IY= 12   2.509E+00  -2.439E+00  -4.246E+00  -2.189E+00  -1.042E+00  -6.651E-01   2.319E-01   1.556E+00   3.297E-01
IY= 11   1.482E+01   7.534E+00  -1.625E+00  -2.483E+00  -1.685E+00  -1.396E+00  -5.621E-01   9.195E-01   2.884E-01
IY= 10   2.879E+01   1.899E+01   4.377E+00  -2.422E+00  -2.556E+00  -2.243E+00  -1.346E+00   3.454E-01   2.539E-01
IY=  9   3.954E+01   2.963E+01   1.226E+01  -1.458E+00  -3.346E+00  -3.000E+00  -2.005E+00  -1.282E-01   2.290E-01
IY=  8   4.594E+01   3.646E+01   1.829E+01  -5.676E-03  -3.920E+00  -3.708E+00  -2.637E+00  -5.429E-01   2.060E-01
IY=  7   4.846E+01   3.941E+01   2.130E+01   1.267E+00  -4.102E+00  -4.245E+00  -3.195E+00  -8.785E-01   1.831E-01
IY=  6   4.677E+01   3.905E+01   2.299E+01   4.051E+00  -3.264E+00  -4.318E+00  -3.486E+00  -1.071E+00   1.604E-01
IY=  5   3.956E+01   3.448E+01   2.273E+01   6.907E+00  -1.751E+00  -3.899E+00  -3.333E+00  -1.089E+00   1.400E-01
IY=  4   2.524E+01   2.336E+01   1.815E+01   8.085E+00  -1.783E-02  -3.064E+00  -2.677E+00  -8.797E-01   1.153E-01
IY=  3   1.522E+01   1.196E+01   8.890E+00   4.955E+00   3.101E-01  -2.198E+00  -1.821E+00  -3.922E-01   8.701E-02
IY=  2   9.246E+00   8.395E+00   6.294E+00   3.659E+00   1.773E-01  -1.899E+00  -1.417E+00  -1.393E-01   7.365E-02
IY=  1   3.559E+00   3.473E+00   2.500E+00   1.054E+00  -6.477E-01  -1.390E+00  -3.607E-01   6.766E-01   3.622E-02
 IX=        1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
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IY= 23   1.271E+00   1.115E+00   8.483E-01   5.219E-01   1.923E-01  -2.026E-01  -6.618E-01  -9.997E-01  -2.041E-06
IY= 22   1.882E+00   1.580E+00   1.166E+00   7.073E-01   2.195E-01  -3.775E-01  -1.033E+00  -2.115E+00  -2.517E-01
IY= 21   2.079E+00   1.620E+00   9.758E-01   2.196E-01  -4.941E-01  -1.096E+00  -1.766E+00  -3.062E+00  -4.858E-02
IY= 20   2.168E+00   1.670E+00   1.014E+00   2.807E-01  -4.031E-01  -1.111E+00  -2.057E+00  -3.617E+00  -2.162E-02
IY= 19   2.044E+00   1.521E+00   8.511E-01   1.354E-01  -4.979E-01  -1.161E+00  -2.319E+00  -4.025E+00  -1.370E-02
IY= 18   1.911E+00   1.382E+00   7.348E-01   1.922E-01  -1.889E-02  -5.667E-01  -2.225E+00  -4.251E+00  -1.046E-02
IY= 17   1.629E+00   1.150E+00   6.403E-01   4.450E-01   5.334E-01  -1.068E-01  -2.121E+00  -4.297E+00  -3.118E-03
IY= 16   1.081E+00   7.924E-01   6.973E-01   1.224E+00   1.746E+00   7.532E-01  -1.819E+00  -4.268E+00   3.216E-03
IY= 15   4.770E-01   4.387E-01   8.478E-01   2.349E+00   3.191E+00   1.775E+00  -1.331E+00  -4.203E+00   8.746E-03
IY= 14  -2.098E-01  -6.347E-02   1.062E+00   3.190E+00   3.988E+00   2.284E+00  -1.069E+00  -4.159E+00   1.236E-02
IY= 13   1.025E+01   4.934E+00   2.003E+00   4.190E+00   5.300E+00   3.203E+00  -3.736E-01  -3.966E+00   1.699E-02
IY= 12   2.652E+01   1.840E+01   7.538E+00   5.937E+00   7.340E+00   4.631E+00   5.185E-01  -3.727E+00   2.090E-02
IY= 11   5.409E+01   4.114E+01   2.116E+01   1.051E+01   1.018E+01   6.500E+00   1.540E+00  -3.472E+00   2.419E-02
IY= 10   9.128E+01   7.204E+01   4.110E+01   1.846E+01   1.277E+01   7.937E+00   2.175E+00  -3.344E+00   2.694E-02
IY=  9   1.349E+02   1.087E+02   6.463E+01   2.722E+01   1.491E+01   8.816E+00   2.463E+00  -3.313E+00   2.895E-02
IY=  8   1.798E+02   1.474E+02   8.962E+01   3.723E+01   1.690E+01   9.117E+00   2.362E+00  -3.306E+00   3.056E-02
IY=  7   2.249E+02   1.839E+02   1.122E+02   4.714E+01   1.866E+01   8.694E+00   1.787E+00  -3.324E+00   3.184E-02
IY=  6   2.674E+02   2.207E+02   1.376E+02   5.888E+01   2.090E+01   7.981E+00   1.057E+00  -3.324E+00   3.276E-02
IY=  5   2.873E+02   2.453E+02   1.623E+02   7.193E+01   2.403E+01   7.133E+00   1.283E-01  -3.334E+00   3.326E-02
IY=  4   2.484E+02   2.251E+02   1.694E+02   8.110E+01   2.680E+01   6.037E+00  -1.116E+00  -3.520E+00   3.316E-02
IY=  3   1.911E+02   1.728E+02   1.317E+02   6.923E+01   2.421E+01   4.752E+00  -2.110E+00  -3.909E+00   3.194E-02
IY=  2   1.357E+02   1.213E+02   9.258E+01   5.267E+01   1.937E+01   2.583E+00  -4.565E+00  -5.436E+00   3.122E-02
IY=  1   7.905E+01   5.639E+01   3.484E+01   1.571E+01   4.517E+00  -3.111E+00  -8.780E+00  -7.801E+00   2.682E-02
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF KE
IY= 23   1.074E+00   1.114E+00   1.300E+00   1.549E+00   1.812E+00   2.196E+00   2.765E+00   4.237E+00   1.135E+01
IY= 22   4.201E-01   5.526E-01   8.021E-01   1.094E+00   1.359E+00   1.690E+00   1.798E+00   1.473E-01   3.164E-03
IY= 21   5.755E-01   8.377E-01   1.217E+00   1.610E+00   2.018E+00   2.618E+00   2.766E+00   2.262E-01   4.971E-03
IY= 20   6.399E-01   1.009E+00   1.519E+00   2.139E+00   2.808E+00   3.521E+00   3.357E+00   2.350E-01   3.746E-03
IY= 19   7.371E-01   1.218E+00   1.829E+00   2.600E+00   3.473E+00   4.197E+00   3.725E+00   2.125E-01   2.776E-03
IY= 18   9.491E-01   1.577E+00   2.380E+00   3.536E+00   4.631E+00   4.852E+00   3.846E+00   1.866E-01   2.223E-03
IY= 17   1.610E+00   2.514E+00   3.699E+00   5.245E+00   5.966E+00   5.507E+00   3.818E+00   1.689E-01   1.959E-03
IY= 16   3.142E+00   4.446E+00   6.229E+00   8.288E+00   8.877E+00   7.710E+00   4.293E+00   1.529E-01   1.713E-03
IY= 15   4.516E+00   6.418E+00   9.531E+00   1.373E+01   1.551E+01   1.256E+01   5.675E+00   1.392E-01   1.531E-03
IY= 14   8.645E+00   1.155E+01   1.495E+01   1.767E+01   1.935E+01   1.520E+01   6.644E+00   1.261E-01   1.342E-03
IY= 13   5.855E+01   2.324E+01   2.001E+01   2.432E+01   2.973E+01   2.291E+01   1.035E+01   1.057E-01   1.106E-03
IY= 12   3.724E+02   2.225E+02   5.717E+01   3.676E+01   4.744E+01   3.640E+01   1.735E+01   8.663E-02   8.875E-04
IY= 11   8.669E+02   6.514E+02   2.657E+02   5.737E+01   6.901E+01   5.377E+01   2.749E+01   7.126E-02   7.050E-04
IY= 10   1.654E+03   1.350E+03   7.302E+02   1.601E+02   8.950E+01   6.763E+01   3.481E+01   6.467E-02   5.758E-04
IY=  9   2.612E+03   2.242E+03   1.443E+03   4.029E+02   1.216E+02   7.860E+01   3.902E+01   6.408E-02   4.805E-04
IY=  8   3.621E+03   3.287E+03   2.376E+03   8.243E+02   1.926E+02   9.070E+01   4.002E+01   6.592E-02   3.967E-04
IY=  7   4.689E+03   4.470E+03   3.519E+03   1.447E+03   3.137E+02   1.076E+02   3.716E+01   6.887E-02   3.207E-04
IY=  6   5.367E+03   5.454E+03   4.775E+03   2.241E+03   4.997E+02   1.341E+02   3.670E+01   7.003E-02   2.557E-04
IY=  5   5.364E+03   5.625E+03   5.487E+03   3.020E+03   7.429E+02   1.672E+02   4.116E+01   6.933E-02   1.952E-04
IY=  4   5.918E+03   5.619E+03   5.195E+03   3.321E+03   9.323E+02   1.937E+02   4.278E+01   7.303E-02   1.338E-04
IY=  3   5.418E+03   5.110E+03   4.383E+03   2.596E+03   8.071E+02   1.818E+02   3.623E+01   8.624E-02   9.283E-05
IY=  2   3.998E+03   3.759E+03   3.083E+03   1.756E+03   5.959E+02   1.505E+02   1.586E+01   1.574E-01   5.365E-05
IY=  1   2.200E+01   1.177E+01   4.899E+00   1.314E+00   4.176E-01   3.012E-01   4.942E-01   3.149E-01   2.981E-05
 IX=      1           2           3           4           5           6           7           8           9
FIELD VALUES OF EP
IY= 23   5.751E-01   5.637E-01   6.616E-01   8.308E-01   1.062E+00   1.522E+00   2.319E+00   4.448E+00   1.695E+01
IY= 22   2.361E-01   2.882E-01   4.264E-01   6.168E-01   8.657E-01   1.323E+00   1.740E+00   7.767E-02   2.565E-04
IY= 21   3.544E-01   4.989E-01   7.469E-01   1.079E+00   1.585E+00   2.623E+00   3.301E+00   1.478E-01   5.053E-04
IY= 20   4.111E-01   6.507E-01   1.027E+00   1.639E+00   2.560E+00   4.016E+00   4.452E+00   1.565E-01   3.306E-04
IY= 19   4.710E-01   8.263E-01   1.328E+00   2.225E+00   3.606E+00   5.247E+00   5.344E+00   1.345E-01   2.109E-04
IY= 18   6.247E-01   1.147E+00   1.896E+00   3.363E+00   5.318E+00   6.296E+00   5.926E+00   1.107E-01   1.511E-04
IY= 17   1.234E+00   2.225E+00   3.736E+00   6.360E+00   8.178E+00   7.684E+00   5.962E+00   9.531E-02   1.250E-04
IY= 16   3.318E+00   5.632E+00   9.323E+00   1.458E+01   1.674E+01   1.282E+01   6.818E+00   8.208E-02   1.022E-04
IY= 15   5.824E+00   1.062E+01   2.021E+01   3.530E+01   4.015E+01   2.692E+01   9.399E+00   7.132E-02   8.637E-05
IY= 14   3.263E+01   2.969E+01   3.725E+01   4.828E+01   5.299E+01   3.425E+01   1.157E+01   6.152E-02   7.088E-05
IY= 13   9.506E+02   1.015E+02   5.541E+01   7.645E+01   9.982E+01   6.379E+01   2.163E+01   4.721E-02   5.304E-05
IY= 12   9.594E+03   4.736E+03   2.996E+02   1.411E+02   1.981E+02   1.270E+02   4.556E+01   3.502E-02   3.812E-05
IY= 11   3.042E+04   2.039E+04   5.097E+03   2.824E+02   3.490E+02   2.291E+02   8.819E+01   2.613E-02   2.698E-05
IY= 10   7.260E+04   5.495E+04   2.208E+04   1.520E+03   4.958E+02   3.231E+02   1.274E+02   2.259E-02   1.992E-05
IY=  9   1.322E+05   1.085E+05   5.735E+04   7.265E+03   6.837E+02   3.947E+02   1.553E+02   2.228E-02   1.518E-05
IY=  8   1.988E+05   1.776E+05   1.129E+05   2.082E+04   1.232E+03   4.504E+02   1.670E+02   2.325E-02   1.139E-05
IY=  7   2.710E+05   2.621E+05   1.918E+05   4.549E+04   2.809E+03   4.859E+02   1.543E+02   2.482E-02   8.279E-06
IY=  6   3.089E+05   3.362E+05   2.938E+05   8.659E+04   6.643E+03   5.396E+02   1.298E+02   2.545E-02   5.895E-06
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IY=  5   2.786E+05   3.272E+05   3.514E+05   1.353E+05   1.388E+04   7.181E+02   1.049E+02   2.507E-02   3.931E-06
IY=  4   2.990E+05   2.890E+05   2.894E+05   1.539E+05   2.138E+04   9.684E+02   8.585E+01   2.710E-02   2.231E-06
IY=  3   2.760E+05   2.610E+05   2.216E+05   1.019E+05   1.667E+04   8.736E+02   7.149E+01   3.479E-02   1.289E-06
IY=  2   1.779E+05   1.647E+05   1.252E+05   5.358E+04   9.949E+03   6.298E+02   4.780E+01   8.577E-02   5.666E-07
IY=  1   1.387E+02   5.426E+01   1.458E+01   2.024E+00   3.628E-01   2.222E-01   4.670E-01   2.402E-01   2.347E-07
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF H1
IY= 23   3.276E+05   3.279E+05   3.284E+05   3.288E+05   3.291E+05   3.292E+05   3.290E+05   3.283E+05   3.258E+05
IY= 22   3.287E+05   3.290E+05   3.294E+05   3.297E+05   3.297E+05   3.297E+05   3.297E+05   3.303E+05   2.968E+05
IY= 21   3.287E+05   3.291E+05   3.294E+05   3.295E+05   3.294E+05   3.296E+05   3.302E+05   3.311E+05   2.967E+05
IY= 20   3.286E+05   3.290E+05   3.294E+05   3.296E+05   3.298E+05   3.304E+05   3.311E+05   3.305E+05   2.964E+05
IY= 19   3.282E+05   3.287E+05   3.292E+05   3.297E+05   3.301E+05   3.307E+05   3.314E+05   3.284E+05   2.962E+05
IY= 18   3.281E+05   3.285E+05   3.288E+05   3.286E+05   3.283E+05   3.290E+05   3.303E+05   3.258E+05   2.962E+05
IY= 17   3.268E+05   3.270E+05   3.270E+05   3.260E+05   3.257E+05   3.273E+05   3.293E+05   3.253E+05   2.962E+05
IY= 16   3.240E+05   3.237E+05   3.232E+05   3.217E+05   3.221E+05   3.250E+05   3.281E+05   3.244E+05   2.962E+05
IY= 15   3.218E+05   3.210E+05   3.200E+05   3.187E+05   3.197E+05   3.228E+05   3.267E+05   3.235E+05   2.962E+05
IY= 14   3.192E+05   3.175E+05   3.164E+05   3.168E+05   3.187E+05   3.219E+05   3.258E+05   3.230E+05   2.962E+05
IY= 13   3.191E+05   3.158E+05   3.144E+05   3.159E+05   3.180E+05   3.204E+05   3.236E+05   3.216E+05   2.962E+05
IY= 12   3.308E+05   3.217E+05   3.155E+05   3.168E+05   3.180E+05   3.188E+05   3.210E+05   3.199E+05   2.962E+05
IY= 11   3.772E+05   3.505E+05   3.256E+05   3.218E+05   3.198E+05   3.178E+05   3.181E+05   3.180E+05   2.962E+05
IY= 10   4.785E+05   4.233E+05   3.618E+05   3.356E+05   3.233E+05   3.175E+05   3.166E+05   3.164E+05   2.962E+05
IY=  9   6.089E+05   5.343E+05   4.354E+05   3.549E+05   3.274E+05   3.174E+05   3.156E+05   3.151E+05   2.962E+05
IY=  8   6.525E+05   5.884E+05   4.840E+05   3.730E+05   3.314E+05   3.175E+05   3.147E+05   3.139E+05   2.962E+05
IY=  7   6.610E+05   5.925E+05   4.831E+05   3.799E+05   3.340E+05   3.174E+05   3.140E+05   3.126E+05   2.962E+05
IY=  6   6.550E+05   5.928E+05   4.888E+05   3.873E+05   3.360E+05   3.175E+05   3.139E+05   3.114E+05   2.962E+05
IY=  5   6.408E+05   5.930E+05   5.028E+05   3.993E+05   3.388E+05   3.179E+05   3.142E+05   3.102E+05   2.962E+05
IY=  4   6.037E+05   5.740E+05   5.086E+05   4.119E+05   3.426E+05   3.191E+05   3.154E+05   3.099E+05   2.962E+05
IY=  3   5.595E+05   5.347E+05   4.814E+05   4.031E+05   3.418E+05   3.211E+05   3.175E+05   3.112E+05   2.962E+05
IY=  2   5.149E+05   4.927E+05   4.488E+05   3.885E+05   3.397E+05   3.252E+05   3.252E+05   3.191E+05   2.962E+05
IY=  1   4.584E+05   4.108E+05   3.680E+05   3.405E+05   3.364E+05   3.403E+05   3.452E+05   3.297E+05   2.962E+05
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   1.804E-01   1.960E-01   2.298E-01   2.598E-01   2.782E-01   2.852E-01   2.967E-01   3.633E-01   6.838E-01
IY= 22   6.727E-02   9.538E-02   1.358E-01   1.745E-01   1.920E-01   1.943E-01   1.672E-01   2.515E-02   3.512E-03
IY= 21   8.409E-02   1.266E-01   1.784E-01   2.162E-01   2.312E-01   2.352E-01   2.087E-01   3.117E-02   4.402E-03
IY= 20   8.965E-02   1.409E-01   2.022E-01   2.512E-01   2.771E-01   2.779E-01   2.278E-01   3.177E-02   3.821E-03
IY= 19   1.038E-01   1.616E-01   2.268E-01   2.735E-01   3.011E-01   3.021E-01   2.337E-01   3.021E-02   3.290E-03
IY= 18   1.298E-01   1.951E-01   2.690E-01   3.345E-01   3.630E-01   3.365E-01   2.246E-01   2.831E-02   2.944E-03
IY= 17   1.890E-01   2.557E-01   3.297E-01   3.893E-01   3.917E-01   3.553E-01   2.200E-01   2.693E-02   2.763E-03
IY= 16   2.677E-01   3.158E-01   3.746E-01   4.240E-01   4.236E-01   4.175E-01   2.433E-01   2.562E-02   2.584E-03
IY= 15   3.152E-01   3.489E-01   4.045E-01   4.809E-01   5.393E-01   5.272E-01   3.084E-01   2.445E-02   2.443E-03
IY= 14   2.062E-01   4.044E-01   5.400E-01   5.818E-01   6.359E-01   6.068E-01   3.432E-01   2.327E-02   2.287E-03
IY= 13   3.246E-01   4.790E-01   6.505E-01   6.961E-01   7.969E-01   7.402E-01   4.461E-01   2.131E-02   2.076E-03
IY= 12   1.301E+00   9.407E-01   9.821E-01   8.620E-01   1.023E+00   9.387E-01   5.947E-01   1.929E-02   1.860E-03
IY= 11   2.223E+00   1.873E+00   1.246E+00   1.049E+00   1.228E+00   1.136E+00   7.710E-01   1.749E-02   1.658E-03
IY= 10   3.390E+00   2.985E+00   2.174E+00   1.517E+00   1.454E+00   1.274E+00   8.558E-01   1.666E-02   1.498E-03
IY=  9   4.643E+00   4.171E+00   3.269E+00   2.011E+00   1.945E+00   1.409E+00   8.825E-01   1.659E-02   1.369E-03
IY=  8   5.937E+00   5.476E+00   4.503E+00   2.937E+00   2.710E+00   1.644E+00   8.633E-01   1.683E-02   1.244E-03
IY=  7   7.303E+00   6.864E+00   5.811E+00   4.144E+00   3.153E+00   2.145E+00   8.056E-01   1.720E-02   1.118E-03
IY=  6   8.392E+00   7.963E+00   6.983E+00   5.220E+00   3.384E+00   3.001E+00   9.342E-01   1.734E-02   9.984E-04
IY=  5   9.297E+00   8.703E+00   7.711E+00   6.069E+00   3.579E+00   3.502E+00   1.454E+00   1.725E-02   8.722E-04
IY=  4   1.054E+01   9.835E+00   8.393E+00   6.451E+00   3.659E+00   3.486E+00   1.918E+00   1.771E-02   7.221E-04
IY=  3   9.572E+00   9.004E+00   7.803E+00   5.954E+00   3.516E+00   3.403E+00   1.652E+00   1.924E-02   6.015E-04
IY=  2   8.084E+00   7.718E+00   6.832E+00   5.181E+00   3.212E+00   3.239E+00   4.739E-01   2.600E-02   4.573E-04
IY=  1   3.141E-01   2.297E-01   1.482E-01   7.674E-02   4.327E-02   3.675E-02   4.707E-02   3.717E-02   3.409E-04
 IX=         1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMPI
IY= 23   3.263E+02   3.266E+02   3.270E+02   3.275E+02   3.278E+02   3.279E+02   3.277E+02   3.270E+02   3.245E+02
IY= 22   3.274E+02   3.277E+02   3.281E+02   3.283E+02   3.284E+02   3.284E+02   3.284E+02   3.289E+02   2.957E+02
IY= 21   3.274E+02   3.278E+02   3.281E+02   3.282E+02   3.281E+02   3.283E+02   3.289E+02   3.298E+02   2.955E+02
IY= 20   3.273E+02   3.277E+02   3.281E+02   3.283E+02   3.285E+02   3.291E+02   3.298E+02   3.292E+02   2.952E+02
IY= 19   3.269E+02   3.274E+02   3.279E+02   3.284E+02   3.288E+02   3.294E+02   3.300E+02   3.271E+02   2.951E+02
IY= 18   3.268E+02   3.272E+02   3.275E+02   3.273E+02   3.269E+02   3.277E+02   3.289E+02   3.245E+02   2.950E+02
IY= 17   3.255E+02   3.257E+02   3.257E+02   3.247E+02   3.244E+02   3.260E+02   3.280E+02   3.240E+02   2.950E+02
IY= 16   3.227E+02   3.224E+02   3.219E+02   3.205E+02   3.208E+02   3.237E+02   3.268E+02   3.231E+02   2.950E+02
IY= 15   3.206E+02   3.197E+02   3.187E+02   3.175E+02   3.184E+02   3.215E+02   3.254E+02   3.223E+02   2.950E+02
IY= 14   3.179E+02   3.162E+02   3.151E+02   3.156E+02   3.174E+02   3.206E+02   3.245E+02   3.218E+02   2.950E+02
IY= 13   3.179E+02   3.146E+02   3.132E+02   3.147E+02   3.167E+02   3.191E+02   3.223E+02   3.203E+02   2.950E+02
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IY= 12   3.295E+02   3.204E+02   3.142E+02   3.155E+02   3.168E+02   3.176E+02   3.197E+02   3.187E+02   2.950E+02
IY= 11   3.757E+02   3.491E+02   3.243E+02   3.205E+02   3.186E+02   3.165E+02   3.169E+02   3.167E+02   2.950E+02
IY= 10   4.766E+02   4.216E+02   3.604E+02   3.342E+02   3.220E+02   3.162E+02   3.153E+02   3.151E+02   2.950E+02
IY=  9   6.065E+02   5.322E+02   4.337E+02   3.534E+02   3.260E+02   3.162E+02   3.143E+02   3.139E+02   2.950E+02
IY=  8   6.499E+02   5.860E+02   4.820E+02   3.715E+02   3.301E+02   3.162E+02   3.134E+02   3.127E+02   2.950E+02
IY=  7   6.584E+02   5.901E+02   4.812E+02   3.784E+02   3.327E+02   3.161E+02   3.127E+02   3.114E+02   2.950E+02
IY=  6   6.524E+02   5.904E+02   4.868E+02   3.857E+02   3.346E+02   3.162E+02   3.127E+02   3.101E+02   2.950E+02
IY=  5   6.382E+02   5.907E+02   5.008E+02   3.977E+02   3.375E+02   3.167E+02   3.130E+02   3.089E+02   2.950E+02
IY=  4   6.013E+02   5.717E+02   5.066E+02   4.103E+02   3.413E+02   3.179E+02   3.141E+02   3.087E+02   2.950E+02
IY=  3   5.572E+02   5.325E+02   4.795E+02   4.015E+02   3.404E+02   3.199E+02   3.162E+02   3.099E+02   2.950E+02
IY=  2   5.128E+02   4.907E+02   4.470E+02   3.869E+02   3.383E+02   3.239E+02   3.239E+02   3.179E+02   2.950E+02
IY=  1   4.566E+02   4.091E+02   3.665E+02   3.391E+02   3.351E+02   3.389E+02   3.438E+02   3.284E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.086E+00   1.085E+00   1.083E+00   1.082E+00   1.081E+00   1.081E+00   1.081E+00   1.084E+00   1.092E+00
IY= 22   1.082E+00   1.081E+00   1.080E+00   1.079E+00   1.079E+00   1.079E+00   1.079E+00   1.077E+00   1.198E+00
IY= 21   1.082E+00   1.081E+00   1.080E+00   1.080E+00   1.080E+00   1.079E+00   1.077E+00   1.074E+00   1.199E+00
IY= 20   1.083E+00   1.081E+00   1.080E+00   1.079E+00   1.078E+00   1.077E+00   1.074E+00   1.076E+00   1.200E+00
IY= 19   1.084E+00   1.082E+00   1.080E+00   1.079E+00   1.077E+00   1.076E+00   1.073E+00   1.083E+00   1.201E+00
IY= 18   1.084E+00   1.083E+00   1.082E+00   1.082E+00   1.083E+00   1.081E+00   1.077E+00   1.092E+00   1.201E+00
IY= 17   1.088E+00   1.087E+00   1.088E+00   1.091E+00   1.092E+00   1.087E+00   1.080E+00   1.094E+00   1.201E+00
IY= 16   1.098E+00   1.099E+00   1.100E+00   1.105E+00   1.104E+00   1.094E+00   1.084E+00   1.096E+00   1.201E+00
IY= 15   1.105E+00   1.108E+00   1.111E+00   1.116E+00   1.112E+00   1.102E+00   1.089E+00   1.099E+00   1.201E+00
IY= 14   1.114E+00   1.120E+00   1.124E+00   1.122E+00   1.116E+00   1.105E+00   1.092E+00   1.101E+00   1.201E+00
IY= 13   1.114E+00   1.126E+00   1.131E+00   1.125E+00   1.118E+00   1.110E+00   1.099E+00   1.106E+00   1.201E+00
IY= 12   1.075E+00   1.105E+00   1.127E+00   1.122E+00   1.118E+00   1.115E+00   1.108E+00   1.112E+00   1.201E+00
IY= 11   9.425E-01   1.014E+00   1.092E+00   1.105E+00   1.112E+00   1.119E+00   1.118E+00   1.118E+00   1.201E+00
IY= 10   7.434E-01   8.398E-01   9.823E-01   1.059E+00   1.100E+00   1.120E+00   1.123E+00   1.124E+00   1.201E+00
IY=  9   5.845E-01   6.656E-01   8.163E-01   1.002E+00   1.086E+00   1.120E+00   1.127E+00   1.128E+00   1.201E+00
IY=  8   5.457E-01   6.046E-01   7.345E-01   9.527E-01   1.073E+00   1.120E+00   1.130E+00   1.133E+00   1.201E+00
IY=  7   5.389E-01   6.005E-01   7.357E-01   9.352E-01   1.064E+00   1.120E+00   1.132E+00   1.138E+00   1.201E+00
IY=  6   5.442E-01   6.004E-01   7.274E-01   9.173E-01   1.058E+00   1.120E+00   1.133E+00   1.142E+00   1.201E+00
IY=  5   5.565E-01   6.005E-01   7.075E-01   8.899E-01   1.049E+00   1.118E+00   1.131E+00   1.146E+00   1.201E+00
IY=  4   5.903E-01   6.204E-01   6.997E-01   8.630E-01   1.037E+00   1.114E+00   1.127E+00   1.147E+00   1.201E+00
IY=  3   6.365E-01   6.656E-01   7.389E-01   8.818E-01   1.040E+00   1.107E+00   1.120E+00   1.143E+00   1.201E+00
IY=  2   6.910E-01   7.218E-01   7.922E-01   9.149E-01   1.046E+00   1.093E+00   1.093E+00   1.114E+00   1.201E+00
IY=  1   7.754E-01   8.653E-01   9.658E-01   1.044E+00   1.056E+00   1.044E+00   1.030E+00   1.079E+00   1.201E+00
 IX=       1           2           3           4           5           6           7           8           9

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TIME STP=     1 SWEEP NO=    70 ZSLAB NO=    46 ITERN NO=     1


FLOW FIELD AT ITHYD=  1, IZ= 46, ISWEEP=  70, ISTEP=   1
FIELD VALUES OF P1
IY= 23   5.021E+00   5.072E+00   4.888E+00   4.642E+00   4.421E+00   4.414E+00   4.951E+00   5.717E+00   5.842E+00
IY= 22   3.223E+00   3.182E+00   2.938E+00   2.583E+00   2.307E+00   2.247E+00   2.744E+00   3.745E+00  -1.220E+00
IY= 21   2.556E-01   2.477E-01  -1.693E-02  -3.588E-01  -1.807E-01   5.278E-01   1.874E+00   3.919E+00  -1.039E+00
IY= 20  -2.885E+00  -2.835E+00  -3.293E+00  -3.851E+00  -3.931E+00  -2.979E+00  -6.846E-01   3.177E+00  -9.296E-01
IY= 19  -7.378E+00  -7.175E+00  -7.417E+00  -7.814E+00  -7.597E+00  -6.200E+00  -2.614E+00   4.025E+00  -8.471E-01
IY= 18  -1.182E+01  -1.138E+01  -1.082E+01  -1.061E+01  -1.067E+01  -9.889E+00  -5.250E+00   4.763E+00  -8.073E-01
IY= 17  -1.559E+01  -1.505E+01  -1.431E+01  -1.306E+01  -1.228E+01  -1.171E+01  -7.022E+00   5.037E+00  -7.862E-01
IY= 16  -1.698E+01  -1.650E+01  -1.552E+01  -1.432E+01  -1.305E+01  -1.321E+01  -8.872E+00   5.015E+00  -7.663E-01
IY= 15  -1.389E+01  -1.455E+01  -1.477E+01  -1.548E+01  -1.394E+01  -1.492E+01  -1.108E+01   4.233E+00  -7.529E-01
IY= 14   2.186E-01  -5.788E+00  -1.104E+01  -1.342E+01  -1.427E+01  -1.625E+01  -1.237E+01   4.522E+00  -7.357E-01
IY= 13   4.456E+01   2.735E+01   3.392E+00  -1.014E+01  -1.464E+01  -1.936E+01  -1.649E+01   3.221E+00  -7.172E-01
IY= 12   1.277E+02   9.662E+01   4.611E+01   3.601E+00  -1.077E+01  -2.266E+01  -2.143E+01   1.395E+00  -7.007E-01
IY= 11   2.310E+02   1.942E+02   1.278E+02   3.680E+01  -3.366E+00  -2.485E+01  -2.634E+01  -1.139E+00  -6.880E-01
IY= 10   3.175E+02   2.810E+02   2.129E+02   7.871E+01   4.955E+00  -2.638E+01  -3.010E+01  -2.942E+00  -6.795E-01
IY=  9   3.748E+02   3.345E+02   2.650E+02   1.186E+02   1.587E+01  -2.747E+01  -3.328E+01  -3.658E+00  -6.730E-01
IY=  8   4.419E+02   3.868E+02   3.155E+02   1.604E+02   2.887E+01  -3.021E+01  -3.718E+01  -4.395E+00  -6.673E-01
IY=  7   5.054E+02   4.411E+02   3.676E+02   2.022E+02   4.308E+01  -3.492E+01  -4.226E+01  -5.515E+00  -6.624E-01
IY=  6   5.229E+02   4.556E+02   3.918E+02   2.316E+02   5.525E+01  -4.115E+01  -4.814E+01  -6.849E+00  -6.584E-01
IY=  5   5.198E+02   4.578E+02   3.983E+02   2.487E+02   6.434E+01  -4.912E+01  -5.503E+01  -7.954E+00  -6.545E-01
IY=  4   5.179E+02   4.578E+02   3.761E+02   2.326E+02   5.845E+01  -5.965E+01  -6.087E+01  -7.715E+00  -6.510E-01
IY=  3   5.175E+02   4.626E+02   3.640E+02   2.022E+02   3.861E+01  -6.727E+01  -6.143E+01  -5.059E+00  -6.494E-01
IY=  2   4.353E+02   3.898E+02   2.952E+02   1.458E+02   8.884E+00  -7.422E+01  -5.861E+01   1.344E+00  -6.472E-01
IY=  1   3.197E+02   2.688E+02   1.760E+02   5.326E+01  -2.898E+01  -6.937E+01  -3.503E+01   2.253E+01  -6.464E-01
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 IX=    1           2           3           4           5           6           7           8           9
FIELD VALUES OF U1
IY= 23   1.480E-01   2.644E-01   3.446E-01   3.144E-01   1.687E-01   8.357E-02   2.078E-01   1.320E-01
IY= 22   1.891E-01   3.318E-01   5.082E-01   6.020E-01   8.093E-01   9.691E-01   8.567E-01   9.634E-08
IY= 21   2.516E-01   4.426E-01   7.926E-01   1.161E+00   1.484E+00   1.568E+00   1.280E+00   4.255E-08
IY= 20   3.500E-01   6.520E-01   1.132E+00   1.574E+00   1.933E+00   2.005E+00   1.556E+00   5.566E-08
IY= 19   3.314E-01   6.672E-01   1.314E+00   1.863E+00   2.346E+00   2.522E+00   1.957E+00   7.560E-08
IY= 18   2.608E-01   5.959E-01   1.300E+00   1.899E+00   2.567E+00   3.016E+00   2.439E+00   3.205E-08
IY= 17  -1.213E-02   1.260E-01   5.533E-01   1.173E+00   2.126E+00   2.869E+00   2.428E+00   3.172E-08
IY= 16  -3.353E-01  -3.960E-01  -7.743E-02   5.490E-01   1.808E+00   2.789E+00   2.468E+00   3.156E-08
IY= 15  -2.706E-02  -3.144E-01  -4.580E-01  -7.073E-02   1.412E+00   2.596E+00   2.459E+00   1.747E-08
IY= 14   2.886E-01   3.837E-03  -7.274E-01  -4.843E-01   1.137E+00   2.426E+00   2.376E+00   3.211E-08
IY= 13   5.417E-01   3.512E-01  -7.303E-01  -1.187E+00   3.889E-01   1.941E+00   2.154E+00   2.733E-08
IY= 12   4.862E-01   4.301E-01  -5.945E-01  -1.600E+00  -4.494E-01   1.325E+00   1.838E+00   2.075E-08
IY= 11   6.072E-02   6.896E-02  -4.046E-01  -1.621E+00  -9.371E-01   7.484E-01   1.435E+00   1.115E-08
IY= 10  -9.847E-01  -1.035E+00  -8.140E-01  -1.779E+00  -1.443E+00   2.809E-01   1.161E+00   5.510E-09
IY=  9  -1.508E+00  -1.768E+00  -1.515E+00  -2.150E+00  -1.851E+00  -1.480E-03   1.130E+00   3.402E-09
IY=  8  -1.978E+00  -2.596E+00  -2.491E+00  -2.708E+00  -2.239E+00  -3.416E-01   1.004E+00   1.789E-09
IY=  7  -2.637E+00  -3.525E+00  -3.430E+00  -3.228E+00  -2.570E+00  -7.150E-01   7.771E-01   4.963E-10
IY=  6  -2.725E+00  -3.717E+00  -3.573E+00  -3.267E+00  -2.718E+00  -1.029E+00   4.152E-01   1.291E-10
IY=  5  -2.069E+00  -2.878E+00  -2.709E+00  -2.708E+00  -2.646E+00  -1.252E+00  -1.123E-01   1.017E-11
IY=  4  -8.962E-01  -1.242E+00  -1.050E+00  -1.660E+00  -2.357E+00  -1.337E+00  -6.705E-01   8.855E-14
IY=  3  -2.837E-01  -3.981E-01  -3.936E-01  -1.166E+00  -2.079E+00  -1.164E+00  -8.679E-01   1.566E-13
IY=  2   8.790E-02   1.182E-01  -4.434E-02  -7.854E-01  -1.574E+00  -3.706E-01  -2.940E-01   1.492E-10
IY=  1   6.798E-01   8.660E-01   1.061E+00   1.058E+00   4.207E+00   6.273E+00   5.274E+00   4.552E-08
 IX=    1           2           3           4           5           6           7           8
FIELD VALUES OF V1
IY= 22   7.237E-01   6.072E-01   3.728E-01   9.844E-02  -7.398E-02   4.698E-01   2.001E+00   3.842E+00   7.009E-02
IY= 21   2.556E-01   1.442E-01  -1.045E-01  -2.445E-01   4.576E-01   2.133E+00   4.072E+00   6.234E+00   4.926E-01
IY= 20  -9.779E-01  -9.903E-01  -6.430E-01   2.444E-01   2.273E+00   4.006E+00   5.684E+00   7.532E+00   4.556E-01
IY= 19  -1.915E+00  -1.600E+00  -6.241E-01   1.016E+00   3.218E+00   4.942E+00   6.481E+00   8.163E+00   4.044E-01
IY= 18  -2.453E+00  -1.683E+00   1.651E-01   2.185E+00   3.987E+00   5.214E+00   6.624E+00   8.190E+00   3.543E-01
IY= 17  -3.017E+00  -2.175E+00   3.219E-02   1.966E+00   3.452E+00   4.533E+00   6.213E+00   7.762E+00   3.385E-01
IY= 16  -2.844E+00  -2.085E+00  -3.346E-01   1.550E+00   2.921E+00   3.950E+00   5.842E+00   7.369E+00   3.213E-01
IY= 15  -1.214E+00  -9.300E-01  -3.170E-01   9.241E-01   2.188E+00   3.258E+00   5.365E+00   6.870E+00   3.019E-01
IY= 14   2.249E+00   1.325E+00   3.830E-01   5.639E-01   1.650E+00   2.760E+00   5.030E+00   6.486E+00   2.895E-01
IY= 13   8.100E+00   5.705E+00   2.273E+00   3.953E-01   6.240E-01   1.732E+00   4.250E+00   5.771E+00   2.644E-01
IY= 12   1.533E+01   1.145E+01   5.414E+00   1.196E+00  -7.463E-02   7.499E-01   3.300E+00   4.900E+00   2.379E-01
IY= 11   2.438E+01   1.886E+01   9.942E+00   2.761E+00  -4.532E-01  -3.735E-01   2.044E+00   3.870E+00   2.104E-01
IY= 10   3.312E+01   2.613E+01   1.467E+01   4.401E+00  -8.297E-01  -1.515E+00   8.137E-01   2.972E+00   1.870E-01
IY=  9   3.889E+01   3.126E+01   1.805E+01   5.641E+00  -8.863E-01  -2.123E+00   7.963E-02   2.334E+00   1.696E-01
IY=  8   4.209E+01   3.433E+01   2.051E+01   6.720E+00  -8.222E-01  -2.690E+00  -5.798E-01   1.659E+00   1.531E-01
IY=  7   4.226E+01   3.493E+01   2.161E+01   7.620E+00  -5.187E-01  -3.097E+00  -1.184E+00   9.623E-01   1.364E-01
IY=  6   3.875E+01   3.269E+01   2.122E+01   8.365E+00   6.651E-02  -3.204E+00  -1.669E+00   2.795E-01   1.193E-01
IY=  5   3.204E+01   2.795E+01   1.934E+01   8.482E+00   5.769E-01  -3.071E+00  -1.973E+00  -2.746E-01   1.036E-01
IY=  4   2.106E+01   1.922E+01   1.456E+01   7.134E+00   6.267E-01  -2.790E+00  -2.112E+00  -7.796E-01   8.455E-02
IY=  3   1.090E+01   9.931E+00   7.461E+00   3.665E+00  -3.411E-01  -2.551E+00  -2.121E+00  -9.953E-01   6.256E-02
IY=  2   7.144E+00   6.462E+00   4.728E+00   2.091E+00  -8.914E-01  -2.461E+00  -2.090E+00  -8.716E-01   5.226E-02
IY=  1   1.835E+00   1.462E+00   4.382E-01  -9.898E-01  -2.201E+00  -2.403E+00  -1.389E+00   3.000E-01   2.453E-02
 IX=    1           2           3           4           5           6           7           8           9
FIELD VALUES OF W1
IY= 23   1.050E+00   9.691E-01   8.335E-01   6.575E-01   4.203E-01   1.255E-01  -1.444E-01  -3.536E-01  -3.469E-07
IY= 22   1.205E+00   1.065E+00   7.618E-01   4.924E-01   1.181E-01  -2.288E-01  -5.516E-01  -1.124E+00  -1.036E-01
IY= 21   7.747E-01   5.602E-01   4.867E-02  -3.099E-01  -5.687E-01  -7.080E-01  -9.668E-01  -1.708E+00  -8.119E-02
IY= 20   5.738E-01   3.897E-01  -3.443E-02  -3.126E-01  -6.073E-01  -8.156E-01  -1.210E+00  -2.217E+00  -6.666E-02
IY= 19   5.785E-01   3.312E-01  -1.762E-01  -4.848E-01  -7.989E-01  -1.059E+00  -1.542E+00  -2.755E+00  -5.951E-02
IY= 18   4.667E-01   2.966E-02  -5.459E-01  -7.929E-01  -1.034E+00  -1.348E+00  -1.954E+00  -3.397E+00  -6.033E-02
IY= 17   1.702E+00   1.106E+00   1.963E-01  -2.390E-01  -5.821E-01  -1.065E+00  -1.955E+00  -3.592E+00  -5.360E-02
IY= 16   3.372E+00   2.410E+00   1.002E+00   2.276E-01  -2.615E-01  -8.962E-01  -2.030E+00  -3.813E+00  -4.976E-02
IY= 15   7.179E+00   5.300E+00   2.647E+00   1.097E+00   2.102E-01  -6.840E-01  -2.115E+00  -4.045E+00  -4.707E-02
IY= 14   1.222E+01   9.122E+00   4.484E+00   1.975E+00   5.725E-01  -5.888E-01  -2.220E+00  -4.195E+00  -4.380E-02
IY= 13   2.408E+01   1.911E+01   1.009E+01   4.469E+00   1.676E+00  -1.400E-01  -2.312E+00  -4.443E+00  -4.176E-02
IY= 12   4.312E+01   3.519E+01   2.077E+01   9.287E+00   3.640E+00   5.821E-01  -2.345E+00  -4.680E+00  -3.978E-02
IY= 11   7.250E+01   5.986E+01   3.799E+01   1.820E+01   6.757E+00   1.803E+00  -2.147E+00  -4.838E+00  -3.862E-02
IY= 10   1.099E+02   9.111E+01   5.912E+01   2.908E+01   1.076E+01   3.025E+00  -1.992E+00  -4.982E+00  -3.749E-02
IY=  9   1.468E+02   1.220E+02   7.915E+01   3.906E+01   1.430E+01   3.649E+00  -2.186E+00  -5.194E+00  -3.602E-02
IY=  8   1.823E+02   1.517E+02   9.902E+01   4.907E+01   1.802E+01   4.350E+00  -2.436E+00  -5.407E+00  -3.485E-02
IY=  7   2.155E+02   1.797E+02   1.183E+02   5.934E+01   2.204E+01   5.159E+00  -2.751E+00  -5.616E+00  -3.393E-02
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IY=  6   2.419E+02   2.039E+02   1.366E+02   6.951E+01   2.616E+01   6.040E+00  -3.046E+00  -5.765E+00  -3.318E-02
IY=  5   2.478E+02   2.140E+02   1.493E+02   7.799E+01   2.992E+01   6.888E+00  -3.386E+00  -5.908E+00  -3.226E-02
IY=  4   2.140E+02   1.926E+02   1.457E+02   8.048E+01   3.181E+01   7.133E+00  -4.002E+00  -6.142E+00  -3.181E-02
IY=  3   1.685E+02   1.525E+02   1.180E+02   6.929E+01   2.869E+01   6.072E+00  -4.444E+00  -6.260E+00  -3.218E-02
IY=  2   1.234E+02   1.114E+02   8.715E+01   5.396E+01   2.319E+01   3.446E+00  -5.660E+00  -6.885E+00  -3.143E-02
IY=  1   7.591E+01   5.693E+01   3.701E+01   1.916E+01   5.298E+00  -4.173E+00  -7.860E+00  -7.919E+00  -4.010E-02
 IX=         1           2           3           4           5           6           7           8            9
FIELD VALUES OF KE
IY= 23   1.172E+00   1.068E+00   1.040E+00   1.079E+00   1.201E+00   1.558E+00   1.979E+00   3.407E+00   1.135E+01
IY= 22   8.547E-01   7.042E-01   6.898E-01   6.743E-01   7.233E-01   8.720E-01   8.722E-01   1.429E-01   8.379E-04
IY= 21   1.597E+00   1.321E+00   1.142E+00   1.089E+00   1.522E+00   1.900E+00   1.800E+00   2.557E-01   1.950E-03
IY= 20   2.192E+00   2.169E+00   2.468E+00   3.362E+00   4.315E+00   4.248E+00   3.257E+00   3.304E-01   1.629E-03
IY= 19   3.086E+00   4.200E+00   5.524E+00   7.142E+00   7.952E+00   7.140E+00   5.044E+00   3.666E-01   1.303E-03
IY= 18   3.922E+00   6.637E+00   9.903E+00   1.232E+01   1.328E+01   1.173E+01   7.713E+00   3.698E-01   1.113E-03
IY= 17   4.949E+00   9.502E+00   1.389E+01   1.654E+01   1.687E+01   1.457E+01   8.983E+00   3.470E-01   1.016E-03
IY= 16   9.041E+00   1.369E+01   1.801E+01   2.072E+01   2.081E+01   1.726E+01   1.010E+01   3.246E-01   9.172E-04
IY= 15   3.064E+01   2.529E+01   2.212E+01   2.480E+01   2.533E+01   2.064E+01   1.120E+01   3.051E-01   8.352E-04
IY= 14   9.639E+01   6.931E+01   3.609E+01   2.872E+01   2.855E+01   2.267E+01   1.173E+01   2.783E-01   7.431E-04
IY= 13   2.739E+02   2.126E+02   1.096E+02   4.498E+01   3.464E+01   2.656E+01   1.297E+01   2.460E-01   6.258E-04
IY= 12   6.402E+02   5.213E+02   3.060E+02   1.124E+02   4.590E+01   3.202E+01   1.500E+01   2.126E-01   5.128E-04
IY= 11   1.319E+03   1.122E+03   7.488E+02   3.014E+02   8.547E+01   4.361E+01   1.952E+01   1.839E-01   4.163E-04
IY= 10   2.319E+03   2.047E+03   1.469E+03   6.413E+02   1.708E+02   6.156E+01   2.423E+01   1.682E-01   3.454E-04
IY=  9   3.316E+03   3.029E+03   2.277E+03   1.063E+03   2.926E+02   8.752E+01   2.951E+01   1.639E-01   2.909E-04
IY=  8   4.233E+03   3.986E+03   3.177E+03   1.591E+03   4.670E+02   1.263E+02   3.623E+01   1.639E-01   2.417E-04
IY=  7   5.053E+03   4.902E+03   4.111E+03   2.196E+03   6.920E+02   1.796E+02   4.417E+01   1.685E-01   1.961E-04
IY=  6   5.446E+03   5.466E+03   4.861E+03   2.768E+03   9.277E+02   2.393E+02   5.227E+01   1.749E-01   1.563E-04
IY=  5   5.449E+03   5.509E+03   5.143E+03   3.166E+03   1.134E+03   2.999E+02   6.103E+01   1.843E-01   1.187E-04
IY=  4   5.484E+03   5.261E+03   4.758E+03   3.135E+03   1.214E+03   3.373E+02   6.313E+01   2.002E-01   8.130E-05
IY=  3   4.788E+03   4.538E+03   3.938E+03   2.562E+03   1.058E+03   3.166E+02   5.865E+01   2.075E-01   5.762E-05
IY=  2   3.507E+03   3.334E+03   2.839E+03   1.838E+03   8.129E+02   2.666E+02   4.871E+01   2.426E-01   3.524E-05
IY=  1   2.039E+01   1.195E+01   5.375E+00   1.593E+00   1.827E-01   2.295E-01   4.576E-01   3.286E-01   3.208E-05
 IX=         1           2           3           4           5           6           7           8            9
FIELD VALUES OF EP
IY= 23   5.683E-01   4.684E-01   4.227E-01   4.231E-01   5.013E-01   8.561E-01   1.475E+00   3.574E+00   1.776E+01
IY= 22   5.184E-01   3.519E-01   3.074E-01   2.735E-01   3.447E-01   7.009E-01   9.054E-01   7.416E-02   3.497E-05
IY= 21   1.193E+00   8.364E-01   6.545E-01   7.003E-01   1.884E+00   2.753E+00   2.658E+00   1.776E-01   1.242E-04
IY= 20   1.807E+00   1.769E+00   2.376E+00   4.900E+00   7.870E+00   7.875E+00   5.813E+00   2.609E-01   9.482E-05
IY= 19   3.279E+00   5.951E+00   1.045E+01   1.663E+01   1.901E+01   1.621E+01   1.062E+01   3.048E-01   6.778E-05
IY= 18   5.458E+00   1.405E+01   2.747E+01   3.673E+01   3.806E+01   3.111E+01   1.860E+01   3.088E-01   5.352E-05
IY= 17   8.251E+00   2.406E+01   4.308E+01   5.281E+01   5.166E+01   4.068E+01   2.261E+01   2.807E-01   4.671E-05
IY= 16   1.847E+01   3.949E+01   5.896E+01   6.911E+01   6.646E+01   5.068E+01   2.636E+01   2.540E-01   4.005E-05
IY= 15   3.156E+02   1.897E+02   9.943E+01   8.815E+01   8.491E+01   6.271E+01   3.000E+01   2.314E-01   3.480E-05
IY= 14   1.397E+03   8.658E+02   2.822E+02   1.133E+02   9.661E+01   6.968E+01   3.172E+01   2.017E-01   2.920E-05
IY= 13   5.431E+03   3.744E+03   1.363E+03   2.766E+02   1.227E+02   8.491E+01   3.550E+01   1.675E-01   2.257E-05
IY= 12   1.675E+04   1.237E+04   5.446E+03   1.131E+03   1.992E+02   1.084E+02   4.248E+01   1.346E-01   1.674E-05
IY= 11   4.441E+04   3.481E+04   1.817E+04   4.593E+03   5.769E+02   1.701E+02   5.993E+01   1.083E-01   1.225E-05
IY= 10   9.451E+04   7.830E+04   4.648E+04   1.329E+04   1.690E+03   2.913E+02   8.432E+01   9.477E-02   9.255E-06
IY=  9   1.516E+05   1.331E+05   8.712E+04   2.712E+04   3.741E+03   5.101E+02   1.180E+02   9.115E-02   7.151E-06
IY=  8   2.083E+05   1.936E+05   1.396E+05   4.772E+04   7.313E+03   9.125E+02   1.686E+02   9.110E-02   5.417E-06
IY=  7   2.612E+05   2.570E+05   2.018E+05   7.538E+04   1.287E+04   1.596E+03   2.391E+02   9.503E-02   3.958E-06
IY=  6   2.807E+05   2.949E+05   2.578E+05   1.059E+05   1.986E+04   2.515E+03   3.230E+02   1.005E-01   2.817E-06
IY=  5   2.627E+05   2.828E+05   2.743E+05   1.285E+05   2.677E+04   3.584E+03   4.191E+02   1.086E-01   1.865E-06
IY=  4   2.556E+05   2.470E+05   2.281E+05   1.241E+05   2.944E+04   4.297E+03   4.610E+02   1.230E-01   1.057E-06
IY=  3   2.146E+05   2.015E+05   1.696E+05   8.944E+04   2.340E+04   3.863E+03   4.224E+02   1.298E-01   6.306E-07
IY=  2   1.365E+05   1.277E+05   1.016E+05   5.257E+04   1.518E+04   2.967E+03   3.405E+02   1.641E-01   3.015E-07
IY=  1   1.238E+02   5.551E+01   1.675E+01   2.703E+00   1.050E-01   1.478E-01   4.160E-01   2.559E-01   2.619E-07
 IX=         1           2           3           4           5           6           7           8            9
FIELD VALUES OF HI
IY= 23   3.285E+05   3.285E+05   3.287E+05   3.289E+05   3.290E+05   3.289E+05   3.286E+05   3.282E+05   3.267E+05
IY= 22   3.290E+05   3.291E+05   3.293E+05   3.294E+05   3.294E+05   3.289E+05   3.286E+05   3.293E+05   2.969E+05
IY= 21   3.291E+05   3.291E+05   3.289E+05   3.285E+05   3.282E+05   3.284E+05   3.292E+05   3.313E+05   2.962E+05
IY= 20   3.290E+05   3.289E+05   3.287E+05   3.287E+05   3.293E+05   3.300E+05   3.313E+05   3.339E+05   2.962E+05
IY= 19   3.291E+05   3.292E+05   3.298E+05   3.310E+05   3.321E+05   3.328E+05   3.341E+05   3.368E+05   2.962E+05
IY= 18   3.298E+05   3.307E+05   3.328E+05   3.339E+05   3.344E+05   3.352E+05   3.369E+05   3.398E+05   2.962E+05
IY= 17   3.295E+05   3.302E+05   3.316E+05   3.325E+05   3.335E+05   3.350E+05   3.375E+05   3.408E+05   2.962E+05
IY= 16   3.278E+05   3.281E+05   3.288E+05   3.303E+05   3.322E+05   3.347E+05   3.381E+05   3.417E+05   2.962E+05
IY= 15   3.251E+05   3.251E+05   3.258E+05   3.276E+05   3.308E+05   3.343E+05   3.388E+05   3.427E+05   2.962E+05
IY= 14   3.259E+05   3.237E+05   3.228E+05   3.255E+05   3.297E+05   3.340E+05   3.392E+05   3.433E+05   2.962E+05
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IY= 13   3.380E+05   3.317E+05   3.244E+05   3.241E+05   3.275E+05   3.332E+05   3.400E+05   3.444E+05   2.962E+05
IY= 12   3.680E+05   3.548E+05   3.362E+05   3.270E+05   3.268E+05   3.325E+05   3.407E+05   3.455E+05   2.962E+05
IY= 11   4.306E+05   4.038E+05   3.661E+05   3.398E+05   3.287E+05   3.313E+05   3.411E+05   3.461E+05   2.962E+05
IY= 10   5.223E+05   4.793E+05   4.154E+05   3.619E+05   3.342E+05   3.316E+05   3.417E+05   3.461E+05   2.962E+05
IY=  9   5.950E+05   5.439E+05   4.598E+05   3.818E+05   3.404E+05   3.327E+05   3.425E+05   3.463E+05   2.962E+05
IY=  8   6.180E+05   5.681E+05   4.823E+05   3.955E+05   3.462E+05   3.342E+05   3.434E+05   3.462E+05   2.962E+05
IY=  7   6.201E+05   5.710E+05   4.875E+05   4.030E+05   3.510E+05   3.358E+05   3.441E+05   3.458E+05   2.962E+05
IY=  6   6.145E+05   5.704E+05   4.924E+05   4.098E+05   3.553E+05   3.375E+05   3.449E+05   3.453E+05   2.962E+05
IY=  5   6.014E+05   5.657E+05   4.972E+05   4.168E+05   3.595E+05   3.395E+05   3.457E+05   3.450E+05   2.962E+05
IY=  4   5.710E+05   5.458E+05   4.928E+05   4.205E+05   3.630E+05   3.420E+05   3.470E+05   3.458E+05   2.962E+05
IY=  3   5.367E+05   5.159E+05   4.724E+05   4.124E+05   3.623E+05   3.439E+05   3.481E+05   3.472E+05   2.962E+05
IY=  2   5.007E+05   4.826E+05   4.468E+05   3.998E+05   3.605E+05   3.473E+05   3.513E+05   3.527E+05   2.962E+05
IY=  1   4.624E+05   4.217E+05   3.827E+05   3.595E+05   3.522E+05   3.583E+05   3.615E+05   3.628E+05   2.962E+05
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF VIST
IY= 23   2.175E-01   2.193E-01   2.303E-01   2.475E-01   2.588E-01   2.552E-01   2.390E-01   2.922E-01   6.533E-01
IY= 22   1.268E-01   1.268E-01   1.393E-01   1.496E-01   1.366E-01   9.765E-02   7.563E-02   2.477E-02   1.807E-03
IY= 21   1.924E-01   1.878E-01   1.792E-01   1.523E-01   1.107E-01   1.181E-01   1.097E-01   3.314E-02   2.757E-03
IY= 20   2.394E-01   2.392E-01   2.307E-01   2.077E-01   2.129E-01   2.062E-01   1.643E-01   3.767E-02   2.520E-03
IY= 19   2.613E-01   2.668E-01   2.628E-01   2.760E-01   2.994E-01   2.831E-01   2.157E-01   3.967E-02   2.253E-03
IY= 18   2.536E-01   2.822E-01   3.213E-01   3.718E-01   4.169E-01   3.978E-01   2.879E-01   3.985E-02   2.083E-03
IY= 17   2.671E-01   3.378E-01   4.030E-01   4.662E-01   4.955E-01   4.696E-01   3.213E-01   3.860E-02   1.990E-03
IY= 16   3.982E-01   4.272E-01   4.952E-01   5.589E-01   5.864E-01   5.290E-01   3.483E-01   3.734E-02   1.891E-03
IY= 15   2.677E-01   3.034E-01   4.428E-01   6.282E-01   6.798E-01   6.115E-01   3.765E-01   3.619E-02   1.804E-03
IY= 14   5.988E-01   4.994E-01   4.155E-01   6.555E-01   7.592E-01   6.636E-01   3.906E-01   3.457E-02   1.702E-03
IY= 13   1.243E+00   1.087E+00   7.930E-01   6.585E-01   8.804E-01   7.479E-01   4.263E-01   3.250E-02   1.562E-03
IY= 12   2.202E+00   1.977E+00   1.548E+00   1.005E+00   9.522E-01   8.515E-01   4.766E-01   3.022E-02   1.414E-03
IY= 11   3.528E+00   3.255E+00   2.778E+00   1.780E+00   1.140E+00   1.006E+00   5.722E-01   2.810E-02   1.274E-03
IY= 10   5.123E+00   4.816E+00   4.177E+00   2.785E+00   1.553E+00   1.171E+00   6.268E-01   2.688E-02   1.160E-03
IY=  9   6.524E+00   6.201E+00   5.355E+00   3.750E+00   2.059E+00   1.351E+00   6.642E-01   2.653E-02   1.065E-03
IY=  8   7.743E+00   7.386E+00   6.507E+00   4.772E+00   2.684E+00   1.574E+00   7.007E-01   2.653E-02   9.706E-04
IY=  7   8.798E+00   8.417E+00   7.535E+00   5.759E+00   3.348E+00   1.820E+00   7.344E-01   2.690E-02   8.742E-04
IY=  6   9.510E+00   9.118E+00   8.248E+00   6.515E+00   3.901E+00   2.049E+00   7.614E-01   2.741E-02   7.806E-04
IY=  5   1.017E+01   9.659E+00   8.679E+00   7.024E+00   4.327E+00   2.259E+00   7.999E-01   2.813E-02   6.803E-04
IY=  4   1.059E+01   1.009E+01   8.933E+00   7.130E+00   4.506E+00   2.382E+00   7.782E-01   2.932E-02   5.629E-04
IY=  3   9.615E+00   9.196E+00   8.232E+00   6.606E+00   4.306E+00   2.336E+00   7.330E-01   2.985E-02   4.739E-04
IY=  2   8.108E+00   7.831E+00   7.139E+00   5.785E+00   3.918E+00   2.156E+00   6.271E-01   3.228E-02   3.706E-04
IY=  1   3.024E-01   2.315E-01   1.552E-01   8.452E-02   2.862E-02   3.208E-02   4.529E-02   3.797E-02   3.536E-04
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF TMP1
IY= 23   3.271E+02   3.272E+02   3.274E+02   3.276E+02   3.277E+02   3.276E+02   3.273E+02   3.269E+02   3.254E+02
IY= 22   3.277E+02   3.278E+02   3.280E+02   3.281E+02   3.280E+02   3.276E+02   3.273E+02   3.280E+02   2.957E+02
IY= 21   3.278E+02   3.278E+02   3.276E+02   3.272E+02   3.269E+02   3.271E+02   3.279E+02   3.299E+02   2.950E+02
IY= 20   3.276E+02   3.276E+02   3.274E+02   3.274E+02   3.280E+02   3.287E+02   3.299E+02   3.326E+02   2.950E+02
IY= 19   3.278E+02   3.279E+02   3.285E+02   3.296E+02   3.308E+02   3.315E+02   3.328E+02   3.355E+02   2.950E+02
IY= 18   3.285E+02   3.294E+02   3.315E+02   3.325E+02   3.331E+02   3.339E+02   3.355E+02   3.385E+02   2.950E+02
IY= 17   3.282E+02   3.289E+02   3.303E+02   3.312E+02   3.321E+02   3.336E+02   3.361E+02   3.394E+02   2.950E+02
IY= 16   3.264E+02   3.268E+02   3.275E+02   3.290E+02   3.309E+02   3.334E+02   3.368E+02   3.404E+02   2.950E+02
IY= 15   3.238E+02   3.238E+02   3.245E+02   3.263E+02   3.295E+02   3.330E+02   3.374E+02   3.414E+02   2.950E+02
IY= 14   3.246E+02   3.224E+02   3.215E+02   3.242E+02   3.284E+02   3.327E+02   3.379E+02   3.419E+02   2.950E+02
IY= 13   3.366E+02   3.304E+02   3.232E+02   3.228E+02   3.262E+02   3.319E+02   3.386E+02   3.431E+02   2.950E+02
IY= 12   3.666E+02   3.533E+02   3.349E+02   3.257E+02   3.255E+02   3.312E+02   3.393E+02   3.442E+02   2.950E+02
IY= 11   4.288E+02   4.022E+02   3.647E+02   3.384E+02   3.274E+02   3.300E+02   3.397E+02   3.447E+02   2.950E+02
IY= 10   5.202E+02   4.774E+02   4.137E+02   3.604E+02   3.329E+02   3.302E+02   3.403E+02   3.447E+02   2.950E+02
IY=  9   5.927E+02   5.418E+02   4.580E+02   3.803E+02   3.390E+02   3.313E+02   3.412E+02   3.449E+02   2.950E+02
IY=  8   6.156E+02   5.659E+02   4.804E+02   3.940E+02   3.448E+02   3.328E+02   3.420E+02   3.448E+02   2.950E+02
IY=  7   6.177E+02   5.688E+02   4.855E+02   4.014E+02   3.496E+02   3.345E+02   3.428E+02   3.444E+02   2.950E+02
IY=  6   6.120E+02   5.681E+02   4.904E+02   4.081E+02   3.539E+02   3.362E+02   3.435E+02   3.439E+02   2.950E+02
IY=  5   5.990E+02   5.635E+02   4.952E+02   4.151E+02   3.580E+02   3.381E+02   3.443E+02   3.436E+02   2.950E+02
IY=  4   5.687E+02   5.437E+02   4.909E+02   4.188E+02   3.615E+02   3.406E+02   3.457E+02   3.444E+02   2.950E+02
IY=  3   5.345E+02   5.139E+02   4.705E+02   4.107E+02   3.609E+02   3.425E+02   3.467E+02   3.458E+02   2.950E+02
IY=  2   4.988E+02   4.807E+02   4.450E+02   3.982E+02   3.590E+02   3.459E+02   3.499E+02   3.513E+02   2.950E+02
IY=  1   4.605E+02   4.200E+02   3.812E+02   3.581E+02   3.508E+02   3.569E+02   3.600E+02   3.614E+02   2.950E+02
 IX=       1           2           3           4           5           6           7           8           9
FIELD VALUES OF RHO1
IY= 23   1.083E+00   1.083E+00   1.082E+00   1.082E+00   1.081E+00   1.081E+00   1.083E+00   1.084E+00   1.089E+00
IY= 22   1.081E+00   1.081E+00   1.080E+00   1.080E+00   1.080E+00   1.082E+00   1.083E+00   1.080E+00   1.198E+00
IY= 21   1.081E+00   1.081E+00   1.081E+00   1.083E+00   1.084E+00   1.083E+00   1.081E+00   1.074E+00   1.201E+00
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IY= 20   1.081E+00   1.081E+00   1.082E+00   1.082E+00   1.080E+00   1.078E+00   1.074E+00   1.065E+00   1.201E+00
IY= 19   1.081E+00   1.080E+00   1.079E+00   1.075E+00   1.071E+00   1.069E+00   1.065E+00   1.056E+00   1.201E+00
IY= 18   1.078E+00   1.075E+00   1.069E+00   1.065E+00   1.063E+00   1.061E+00   1.056E+00   1.047E+00   1.201E+00
IY= 17   1.079E+00   1.077E+00   1.073E+00   1.070E+00   1.067E+00   1.062E+00   1.054E+00   1.044E+00   1.201E+00
IY= 16   1.085E+00   1.084E+00   1.082E+00   1.077E+00   1.070E+00   1.063E+00   1.052E+00   1.041E+00   1.201E+00
IY= 15   1.094E+00   1.094E+00   1.092E+00   1.086E+00   1.075E+00   1.064E+00   1.050E+00   1.038E+00   1.201E+00
IY= 14   1.091E+00   1.099E+00   1.102E+00   1.093E+00   1.079E+00   1.065E+00   1.048E+00   1.036E+00   1.201E+00
IY= 13   1.053E+00   1.073E+00   1.096E+00   1.097E+00   1.086E+00   1.067E+00   1.046E+00   1.033E+00   1.201E+00
IY= 12   9.677E-01   1.004E+00   1.058E+00   1.088E+00   1.088E+00   1.070E+00   1.044E+00   1.029E+00   1.201E+00
IY= 11   8.280E-01   8.825E-01   9.727E-01   1.047E+00   1.082E+00   1.073E+00   1.043E+00   1.028E+00   1.201E+00
IY= 10   6.832E-01   7.441E-01   8.581E-01   9.838E-01   1.064E+00   1.073E+00   1.041E+00   1.028E+00   1.201E+00
IY=  9   6.000E-01   6.561E-01   7.756E-01   9.327E-01   1.045E+00   1.069E+00   1.038E+00   1.027E+00   1.201E+00
IY=  8   5.780E-01   6.285E-01   7.397E-01   9.007E-01   1.028E+00   1.064E+00   1.036E+00   1.027E+00   1.201E+00
IY=  7   5.764E-01   6.256E-01   7.324E-01   8.843E-01   1.014E+00   1.059E+00   1.033E+00   1.029E+00   1.201E+00
IY=  6   5.819E-01   6.264E-01   7.252E-01   8.700E-01   1.002E+00   1.053E+00   1.031E+00   1.030E+00   1.201E+00
IY=  5   5.944E-01   6.316E-01   7.183E-01   8.556E-01   9.901E-01   1.047E+00   1.029E+00   1.031E+00   1.201E+00
IY=  4   6.262E-01   6.546E-01   7.244E-01   8.478E-01   9.805E-01   1.039E+00   1.024E+00   1.029E+00   1.201E+00
IY=  3   6.662E-01   6.926E-01   7.557E-01   8.643E-01   9.821E-01   1.034E+00   1.021E+00   1.025E+00   1.201E+00
IY=  2   7.134E-01   7.399E-01   7.985E-01   8.910E-01   9.869E-01   1.023E+00   1.012E+00   1.009E+00   1.201E+00
IY=  1   7.717E-01   8.457E-01   9.311E-01   9.899E-01   1.010E+00   9.920E-01   9.836E-01   9.806E-01   1.201E+00
 IX=        1           2           3           4           5           6           7           8           9


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SPOT VALUES VS. SWEEP (/1THYD IF PARA8)
   IXMON=     2    IYMON=     4    IZMON=    12


TABULATION OF ABSCISSA AND ORDINATES...
      ISWP        P1         U1         V1          W1         KE         EP         H1
  2.000E+00 -1.192E+02 -6.247E+00 -2.132E+00  2.719E+01  2.324E+00  1.601E+01  2.961E+05
  3.000E+00 -1.191E+02 -6.246E+00 -2.132E+00  2.718E+01  2.323E+00  1.600E+01  2.961E+05
  4.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.322E+00  1.599E+01  2.961E+05
  5.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.321E+00  1.598E+01  2.961E+05
  6.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.321E+00  1.598E+01  2.961E+05
  7.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.320E+00  1.597E+01  2.961E+05
  8.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.320E+00  1.597E+01  2.961E+05
  9.000E+00 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.000E+01 -1.190E+02 -6.246E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.100E+01 -1.190E+02 -6.247E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.200E+01 -1.190E+02 -6.247E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.300E+01 -1.190E+02 -6.247E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.400E+01 -1.190E+02 -6.247E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.500E+01 -1.190E+02 -6.247E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.600E+01 -1.190E+02 -6.248E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.700E+01 -1.190E+02 -6.248E+00 -2.132E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
  1.800E+01 -1.190E+02 -6.248E+00 -2.132E+00  2.719E+01  2.319E+00  1.596E+01  2.961E+05
  1.900E+01 -1.190E+02 -6.248E+00 -2.132E+00  2.719E+01  2.320E+00  1.596E+01  2.961E+05
  2.000E+01 -1.190E+02 -6.248E+00 -2.132E+00  2.719E+01  2.320E+00  1.596E+01  2.961E+05
  2.100E+01 -1.190E+02 -6.249E+00 -2.132E+00  2.719E+01  2.320E+00  1.596E+01  2.961E+05
  2.200E+01 -1.190E+02 -6.249E+00 -2.132E+00  2.719E+01  2.320E+00  1.597E+01  2.961E+05
  2.300E+01 -1.190E+02 -6.249E+00 -2.132E+00  2.719E+01  2.320E+00  1.597E+01  2.961E+05
  2.400E+01 -1.190E+02 -6.249E+00 -2.132E+00  2.719E+01  2.320E+00  1.597E+01  2.961E+05
  2.500E+01 -1.190E+02 -6.249E+00 -2.132E+00  2.719E+01  2.321E+00  1.597E+01  2.961E+05
  2.600E+01 -1.190E+02 -6.250E+00 -2.133E+00  2.719E+01  2.321E+00  1.597E+01  2.961E+05
  2.700E+01 -1.190E+02 -6.250E+00 -2.133E+00  2.719E+01  2.321E+00  1.597E+01  2.961E+05
  2.800E+01 -1.190E+02 -6.250E+00 -2.133E+00  2.719E+01  2.321E+00  1.598E+01  2.961E+05
  2.900E+01 -1.190E+02 -6.250E+00 -2.133E+00  2.719E+01  2.321E+00  1.598E+01  2.961E+05
  3.000E+01 -1.190E+02 -6.250E+00 -2.133E+00  2.719E+01  2.321E+00  1.598E+01  2.961E+05
  3.100E+01 -1.190E+02 -6.251E+00 -2.133E+00  2.719E+01  2.322E+00  1.598E+01  2.961E+05
  3.200E+01 -1.191E+02 -6.251E+00 -2.133E+00  2.719E+01  2.322E+00  1.598E+01  2.961E+05
  3.300E+01 -1.191E+02 -6.251E+00 -2.133E+00  2.719E+01  2.322E+00  1.598E+01  2.961E+05
  3.400E+01 -1.191E+02 -6.251E+00 -2.133E+00  2.719E+01  2.322E+00  1.598E+01  2.961E+05
  3.500E+01 -1.191E+02 -6.251E+00 -2.133E+00  2.719E+01  2.322E+00  1.599E+01  2.961E+05
  3.600E+01 -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.322E+00  1.599E+01  2.961E+05
  3.700E+01 -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.322E+00  1.599E+01  2.961E+05
  3.800E+01 -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.323E+00  1.599E+01  2.961E+05
  3.900E+01 -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.323E+00  1.599E+01  2.961E+05
  4.000E+01 -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.323E+00  1.599E+01  2.961E+05
  4.100E+01 -1.191E+02 -6.253E+00 -2.133E+00  2.720E+01  2.323E+00  1.599E+01  2.961E+05
  4.200E+01 -1.191E+02 -6.253E+00 -2.133E+00  2.720E+01  2.323E+00  1.599E+01  2.961E+05
  4.300E+01 -1.191E+02 -6.253E+00 -2.133E+00  2.720E+01  2.323E+00  1.600E+01  2.961E+05
  4.400E+01 -1.191E+02 -6.253E+00 -2.133E+00  2.720E+01  2.323E+00  1.600E+01  2.961E+05
  4.500E+01 -1.191E+02 -6.253E+00 -2.133E+00  2.720E+01  2.323E+00  1.600E+01  2.961E+05
  4.600E+01 -1.191E+02 -6.254E+00 -2.133E+00  2.720E+01  2.324E+00  1.600E+01  2.961E+05
  4.700E+01 -1.191E+02 -6.254E+00 -2.133E+00  2.720E+01  2.324E+00  1.600E+01  2.961E+05
  4.800E+01 -1.191E+02 -6.254E+00 -2.133E+00  2.720E+01  2.324E+00  1.600E+01  2.961E+05
  4.900E+01 -1.191E+02 -6.254E+00 -2.134E+00  2.720E+01  2.324E+00  1.600E+01  2.961E+05
  5.000E+01 -1.191E+02 -6.254E+00 -2.134E+00  2.720E+01  2.324E+00  1.600E+01  2.961E+05
  5.100E+01 -1.191E+02 -6.255E+00 -2.134E+00  2.720E+01  2.324E+00  1.601E+01  2.961E+05
  5.200E+01 -1.192E+02 -6.255E+00 -2.134E+00  2.720E+01  2.324E+00  1.601E+01  2.961E+05
  5.300E+01 -1.192E+02 -6.255E+00 -2.134E+00  2.720E+01  2.325E+00  1.601E+01  2.961E+05
  5.400E+01 -1.192E+02 -6.255E+00 -2.134E+00  2.720E+01  2.325E+00  1.601E+01  2.961E+05
  5.500E+01 -1.192E+02 -6.255E+00 -2.134E+00  2.720E+01  2.325E+00  1.601E+01  2.961E+05
  5.600E+01 -1.192E+02 -6.256E+00 -2.134E+00  2.720E+01  2.325E+00  1.601E+01  2.961E+05
  5.700E+01 -1.192E+02 -6.256E+00 -2.134E+00  2.720E+01  2.325E+00  1.601E+01  2.961E+05
  5.800E+01 -1.192E+02 -6.256E+00 -2.134E+00  2.720E+01  2.325E+00  1.602E+01  2.961E+05
  5.900E+01 -1.192E+02 -6.256E+00 -2.134E+00  2.720E+01  2.325E+00  1.602E+01  2.961E+05
  6.000E+01 -1.192E+02 -6.256E+00 -2.134E+00  2.720E+01  2.325E+00  1.602E+01  2.961E+05
  6.100E+01 -1.192E+02 -6.257E+00 -2.134E+00  2.720E+01  2.326E+00  1.602E+01  2.961E+05
  6.200E+01 -1.192E+02 -6.257E+00 -2.134E+00  2.720E+01  2.326E+00  1.602E+01  2.961E+05
  6.300E+01 -1.192E+02 -6.257E+00 -2.134E+00  2.721E+01  2.326E+00  1.602E+01  2.961E+05
  6.400E+01 -1.192E+02 -6.257E+00 -2.134E+00  2.721E+01  2.326E+00  1.602E+01  2.961E+05
  6.500E+01 -1.192E+02 -6.257E+00 -2.134E+00  2.721E+01  2.326E+00  1.602E+01  2.961E+05
  6.600E+01 -1.192E+02 -6.258E+00 -2.134E+00  2.721E+01  2.326E+00  1.603E+01  2.961E+05
  6.700E+01 -1.192E+02 -6.258E+00 -2.134E+00  2.721E+01  2.326E+00  1.603E+01  2.961E+05
  6.800E+01 -1.192E+02 -6.258E+00 -2.134E+00  2.721E+01  2.327E+00  1.603E+01  2.961E+05
  6.900E+01 -1.192E+02 -6.258E+00 -2.134E+00  2.721E+01  2.327E+00  1.603E+01  2.961E+05
  7.000E+01 -1.192E+02 -6.258E+00 -2.134E+00  2.721E+01  2.327E+00  1.603E+01  2.961E+05
  VARIABLE        P1         U1         V1         W1         KE         EP         H1
    MINVAL= -1.192E+02 -6.258E+00 -2.134E+00  2.718E+01  2.319E+00  1.596E+01  2.961E+05
    MAXVAL= -1.190E+02 -6.246E+00 -2.132E+00  2.721E+01  2.327E+00  1.603E+01  2.961E+05
    CELLAV= -1.191E+02 -6.252E+00 -2.133E+00  2.719E+01  2.323E+00  1.599E+01  2.961E+05

1.00 +..VV.VH.HH.HH.HH.HH+HH.HHH.HH+HH.HH.HH.HH.HH.HH.HHH.HH.HH.HH.HH.HH.HH+HH.HHH...+.........+.........E
     VV     U VV  P P                                                                                   E.
     .     P   U V   P P                                                                              E  .
     .           UV     P                                                                          K E   .
     U              VV    P                                                                       EE     .
0.90 +               U V   P P                                                                  E        +
     .   P             UV     P                                                                E         .
     .                    V    P                                                             E           .
     .                     V     P                                                        K E            .
     .                       V    P P                                                    KE              .
0.80 +                        VU     P                                                 K E               +
     .                         V U     P                                              KE                 .
     .  P                        VU     P                                           E E                  .
     .                            V U     P                                      W E                     .
     E                              VU U   P                                    KE                       .
0.70 +                               V VU    P                                 KE                        +
     .                                  V U   P P                            K E                         .
     .                                    VU     P                          KE                           .
     K                                     V UU    P                     WK E                            .
     .                                       V  U   P                  K KE                              .
0.60 +E                                       V  U    PP              KE E                               +
     .                                          VV U    P           K E                                  .
     .                                             VU U   P      W KE                                    .
     .                                              V  U   P    WK E                                     .
     .K                                              V U    PK KE                                       .
0.50 +P                                                VV UU KP E                                        +
     .                                                    VK UE PP                                       .
     .  E                                               W KV EU    P                                     .
     .                                                 WK EE V  U   P                                    .
     .                                                WKE     V VU U  P                                  .
0.40 +  K                                           K KE         V  U  P                                 +
     .                                          W K  E            V  U  PP                               .
     .   E                                      WK  E               V VU    P                            .
     .                                        W K  E                   V UU  P                           .
     .                                       WK  E                       V  U  P                         .
0.30 +   K                                WW K  E                         V VU  P                        +
     .     E                            W  K  E                              V U P                       .
     .                                 W  K  E                                 VUU P                     .
     .                               W  K  E                                    VV UP P                  .
     .                            W W  K  E                                        VU  P                 .
0.20 +     KE                    W   K  E                                           V V  P               +
     .                         W    K  E                                               V UP              .
     .                       WW   K  E                                                   VU P            .
     W      K E            W        E                                                     V VP           .
     .                    W      KE                                                          V U         .
0.10 +                 WW      K E                                                             VU        +
     .        KE     W        KE                                                                V VP     .
     .W        K E  W        KE                                                                    V P   .
     .           WW        K E                                                                       VV  .
     .  W     WW KE E   K EE                                                                            V.
0.00 HH.HH.HW..+..K.KE.EE+.........+.........+.........+.........+.........+.......HH+HH.HH.HH.HH.HH.HH.HH
     0        .1        .2        .3        .4        .5        .6        .7        .8        .9       1.0
THE ABSCISSA IS      ISWP.  MIN= 2.00E+00 MAX= 7.00E+01
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RESIDUALS VS. SWEEP (/ITHYD IF PARA8)

TABULATION OF ABSCISSA AND ORDINATES...
       ISWP       P1         U1         V1         W1         KE         EP         H1
  2.000E+00  3.674E+06  6.441E+07  9.550E+07  3.366E+08  4.289E+11  5.504E+14  5.616E+11
  3.000E+00  2.843E+06  8.351E+07  1.385E+08  2.466E+08  4.119E+11  5.504E+14  5.490E+11
  4.000E+00  2.237E+06  7.373E+07  1.126E+08  1.944E+08  4.082E+11  5.502E+14  4.961E+11
  5.000E+00  1.846E+06  7.122E+07  8.986E+07  1.545E+08  4.059E+11  5.499E+14  4.622E+11
  6.000E+00  1.492E+06  5.803E+07  7.500E+07  1.258E+08  4.016E+11  5.498E+14  4.434E+11
  7.000E+00  1.261E+06  4.916E+07  5.918E+07  1.063E+08  3.986E+11  5.496E+14  4.300E+11
  8.000E+00  1.132E+06  4.518E+07  5.319E+07  9.218E+07  3.976E+11  5.495E+14  4.142E+11
  9.000E+00  1.009E+06  4.317E+07  4.905E+07  8.009E+07  3.972E+11  5.495E+14  4.031E+11
  1.000E+01  8.847E+05  4.010E+07  4.538E+07  7.009E+07  3.972E+11  5.495E+14  3.917E+11
  1.100E+01  7.899E+05  3.773E+07  4.216E+07  6.261E+07  3.969E+11  5.495E+14  3.876E+11
  1.200E+01  7.278E+05  3.686E+07  3.992E+07  5.697E+07  3.968E+11  5.495E+14  3.840E+11
  1.300E+01  6.708E+05  3.550E+07  3.809E+07  5.375E+07  3.971E+11  5.495E+14  3.769E+11
  1.400E+01  6.023E+05  3.143E+07  3.514E+07  5.052E+07  3.971E+11  5.496E+14  3.661E+11
  1.500E+01  5.746E+05  2.927E+07  3.316E+07  4.784E+07  3.967E+11  5.496E+14  3.682E+11
  1.600E+01  5.722E+05  2.852E+07  3.153E+07  4.444E+07  3.969E+11  5.496E+14  3.649E+11
  1.700E+01  5.356E+05  2.565E+07  2.921E+07  4.141E+07  3.971E+11  5.496E+14  3.570E+11
  1.800E+01  4.889E+05  2.334E+07  2.696E+07  3.894E+07  3.970E+11  5.496E+14  3.543E+11
  1.900E+01  4.647E+05  2.243E+07  2.498E+07  3.554E+07  3.970E+11  5.496E+14  3.559E+11
  2.000E+01  4.457E+05  2.151E+07  2.332E+07  3.190E+07  3.972E+11  5.496E+14  3.515E+11
  2.100E+01  4.315E+05  1.980E+07  2.187E+07  2.990E+07  3.975E+11  5.496E+14  3.484E+11
  2.200E+01  4.124E+05  1.841E+07  2.100E+07  2.783E+07  3.975E+11  5.496E+14  3.478E+11
  2.300E+01  4.168E+05  1.877E+07  2.067E+07  2.668E+07  3.978E+11  5.496E+14  3.506E+11
  2.400E+01  4.041E+05  1.807E+07  1.990E+07  2.531E+07  3.981E+11  5.496E+14  3.443E+11
  2.500E+01  4.009E+05  1.612E+07  1.868E+07  2.469E+07  3.982E+11  5.496E+14  3.425E+11
  2.600E+01  3.892E+05  1.562E+07  1.814E+07  2.440E+07  3.984E+11  5.496E+14  3.408E+11
  2.700E+01  3.584E+05  1.480E+07  1.755E+07  2.365E+07  3.985E+11  5.497E+14  3.369E+11
  2.800E+01  3.583E+05  1.505E+07  1.739E+07  2.386E+07  3.986E+11  5.497E+14  3.372E+11
  2.900E+01  3.549E+05  1.522E+07  1.710E+07  2.368E+07  3.988E+11  5.497E+14  3.361E+11
  3.000E+01  3.511E+05  1.541E+07  1.682E+07  2.431E+07  3.989E+11  5.497E+14  3.358E+11
  3.100E+01  3.442E+05  1.569E+07  1.658E+07  2.361E+07  3.990E+11  5.497E+14  3.354E+11
  3.200E+01  3.359E+05  1.536E+07  1.613E+07  2.325E+07  3.991E+11  5.497E+14  3.307E+11
  3.300E+01  3.379E+05  1.490E+07  1.615E+07  2.307E+07  3.992E+11  5.497E+14  3.332E+11
  3.400E+01  3.365E+05  1.490E+07  1.619E+07  2.322E+07  3.993E+11  5.497E+14  3.324E+11
  3.500E+01  3.272E+05  1.410E+07  1.566E+07  2.277E+07  3.994E+11  5.497E+14  3.272E+11
  3.600E+01  3.102E+05  1.372E+07  1.542E+07  2.249E+07  3.993E+11  5.498E+14  3.251E+11
  3.700E+01  3.230E+05  1.425E+07  1.638E+07  2.282E+07  3.993E+11  5.498E+14  3.300E+11
  3.800E+01  3.267E+05  1.507E+07  1.674E+07  2.286E+07  3.997E+11  5.498E+14  3.303E+11
  3.900E+01  3.262E+05  1.435E+07  1.605E+07  2.276E+07  3.999E+11  5.498E+14  3.245E+11
  4.000E+01  3.103E+05  1.379E+07  1.580E+07  2.252E+07  3.997E+11  5.498E+14  3.230E+11
  4.100E+01  3.375E+05  1.532E+07  1.708E+07  2.340E+07  3.997E+11  5.498E+14  3.298E+11
  4.200E+01  3.527E+05  1.732E+07  1.785E+07  2.358E+07  4.002E+11  5.498E+14  3.322E+11
  4.300E+01  3.327E+05  1.528E+07  1.601E+07  2.306E+07  4.005E+11  5.498E+14  3.207E+11
  4.400E+01  3.223E+05  1.584E+07  1.627E+07  2.360E+07  4.000E+11  5.498E+14  3.237E+11
  4.500E+01  3.493E+05  1.706E+07  1.659E+07  2.425E+07  4.003E+11  5.498E+14  3.263E+11
  4.600E+01  3.248E+05  1.521E+07  1.588E+07  2.361E+07  4.006E+11  5.498E+14  3.175E+11
  4.700E+01  3.428E+05  1.597E+07  1.665E+07  2.480E+07  4.002E+11  5.499E+14  3.244E+11
  4.800E+01  3.719E+05  1.774E+07  1.690E+07  2.571E+07  4.007E+11  5.499E+14  3.258E+11
  4.900E+01  3.429E+05  1.581E+07  1.620E+07  2.496E+07  4.010E+11  5.499E+14  3.182E+11
  5.000E+01  3.344E+05  1.604E+07  1.639E+07  2.675E+07  4.006E+11  5.499E+14  3.236E+11
  5.100E+01  3.408E+05  1.633E+07  1.609E+07  2.708E+07  4.010E+11  5.499E+14  3.216E+11
  5.200E+01  3.345E+05  1.542E+07  1.577E+07  2.636E+07  4.010E+11  5.499E+14  3.177E+11
  5.300E+01  3.401E+05  1.552E+07  1.648E+07  2.682E+07  4.009E+11  5.499E+14  3.186E+11
  5.400E+01  3.396E+05  1.614E+07  1.633E+07  2.786E+07  4.012E+11  5.499E+14  3.216E+11
  5.500E+01  3.302E+05  1.624E+07  1.622E+07  2.745E+07  4.012E+11  5.499E+14  3.201E+11
  5.600E+01  3.285E+05  1.545E+07  1.553E+07  2.678E+07  4.012E+11  5.499E+14  3.146E+11
  5.700E+01  3.305E+05  1.550E+07  1.630E+07  2.650E+07  4.012E+11  5.499E+14  3.196E+11
  5.800E+01  3.155E+05  1.556E+07  1.610E+07  2.650E+07  4.016E+11  5.500E+14  3.187E+11
  5.900E+01  3.306E+05  1.506E+07  1.539E+07  2.683E+07  4.016E+11  5.500E+14  3.175E+11
  6.000E+01  3.091E+05  1.506E+07  1.521E+07  2.593E+07  4.015E+11  5.500E+14  3.165E+11
  6.100E+01  3.406E+05  1.604E+07  1.607E+07  2.693E+07  4.016E+11  5.500E+14  3.213E+11
  6.200E+01  3.347E+05  1.665E+07  1.644E+07  2.671E+07  4.019E+11  5.500E+14  3.213E+11
  6.300E+01  3.380E+05  1.589E+07  1.567E+07  2.695E+07  4.021E+11  5.500E+14  3.163E+11
  6.400E+01  3.400E+05  1.685E+07  1.614E+07  2.753E+07  4.020E+11  5.500E+14  3.205E+11
  6.500E+01  3.401E+05  1.741E+07  1.637E+07  2.751E+07  4.023E+11  5.500E+14  3.196E+11
  6.600E+01  3.170E+05  1.586E+07  1.553E+07  2.694E+07  4.024E+11  5.500E+14  3.148E+11
  6.700E+01  3.232E+05  1.547E+07  1.583E+07  2.678E+07  4.021E+11  5.500E+14  3.183E+11
  6.800E+01  3.359E+05  1.679E+07  1.586E+07  2.695E+07  4.024E+11  5.501E+14  3.200E+11
  6.900E+01  3.298E+05  1.664E+07  1.615E+07  2.688E+07  4.026E+11  5.501E+14  3.174E+11
  7.000E+01  3.285E+05  1.687E+07  1.620E+07  2.770E+07  4.027E+11  5.501E+14  3.174E+11
  VARIABLE        P1         U1         V1         W1         KE         EP         H1
    MINVAL=  1.264E+01  1.643E+01  1.654E+01  1.693E+01  2.671E+01  3.394E+01  2.647E+01
    MAXVAL=  1.512E+01  1.824E+01  1.875E+01  1.963E+01  2.678E+01  3.394E+01  2.705E+01

1.00 HE........+.........+.........+.........+.........+.........+.........+.........+.........+.........+
     E                                                                                                   .
     .H                                                                                                  .
     .  U                                                                                                .
     .   U                                                                                               .
0.90 +P V                                                                                                +
     .W                                                                                                  .
     U                                                                                                   .
     V  E                                                                                                .
     .                                                                                                   .
0.80 +  WV U                                                                                             +
     .  H                                                                                                .
     .                                                                                                   .
     .                                                                                                   .
     .   W V                                                                                             .
0.70 +      U                                                                                            +
     .                                                                                                   .
     .   H    U                                                                                          .
     .     W   U                                                                                        EE
     .      V                                                                                        EE  .
0.60 +     H     U                                                                                EE     +
     .      W                                                                                  E        .
     .      P V   U                                                                         E E         .
     .      H  V    U                                                                      E            .
     .        W      U                                                                  EE              .
0.50 +           V                                                                  E EE                 +
     .K       HP                                                                 E E                     .
     .   E     W  V    U                                                       EE                        .
     .              V                                                       EE                           .
     .         H W   V  U                                                EE                              .
0.40 +                    U                                           EE                                 +
     .           HW    V                                            E                                    .
     .  K         H     V                                        E E                                     .
     .              H     VU                                  E E                                        .
     .               H                                     E E                                           .
0.30 +   K             W   V U                          E E                                              +
     .     E            H     U                        E                                                 .
     .                 HP H  V                      E E                                                  .
     .                    P    U                %EE E                                                     .
     .                     H  H               E                                                          .
0.20 +                       H H U         E E                                                          KK
     .                       P   HH H     E                                                    K  KK KK  .
     .     K                  W  VU  H EE                                              K KK KK  K        .
     .      E                  P PV VE HH                                UK  K KKK KK K           U      .
     .                         W  P EV    HH HH H               KK  K KK K  K                   U     U  U
0.10 +                            EE  P VP          HH     KK KK H  K         U   U U         U          U+
     .                       EEE  W    UV     K KH KK KKH H   H V  U   U PU U    W W        U  UW WU     W
     .      K          EE EE        W   K KK KU  U    HH  UH  V PU  H UH H  WW WW   W WW WW WW W   W WW W.
     .        E      E              KK KW U   V VP UU   V V  HP  H HV  W WW HH PVH H  V     HH PH V   P  .
     .        KK KE EK K   K KKK KK        WW WW WW VW V U PV VW WV WW H   H  V HH  VP HH HH V  VV HP HH HH
0.00 +.........E.EK.K...K+K........+.........+.....W..WWW.WW.W...W.........+........H+.P.VV....H...H.....+
     0        .I        .2        .3        .4        .5        .6        .7        .8        .9       1.0
THE ABSCISSA IS      ISWP.  MIN= 2.00E+00 MAX= 7.00E+01
************************************************************

DATA FOR RE-STARTS AND PLOTTING SAVED ON DF09
RUN NO.   I  ENDED AT ISWEEP=    70  AND ISTEP=     I

************************************************************
SATLIT RUN NUMBER =   1
MACHINE-CLOCK TIME OF RUN =       0 SECONDS.
TIME/(VARIABLES*CELLS*TSTEPS*SWEEPS*ITS) = 0.000E+00
************************************************************
 NORMAL STOP REACHED IN PROGRAM
```

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8. Interview between T. Wildes, Lieutenant, USN, Aviation Intermediate Maintenance Department, and the author 8 November 1988.

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